

JOHN P. BETTON



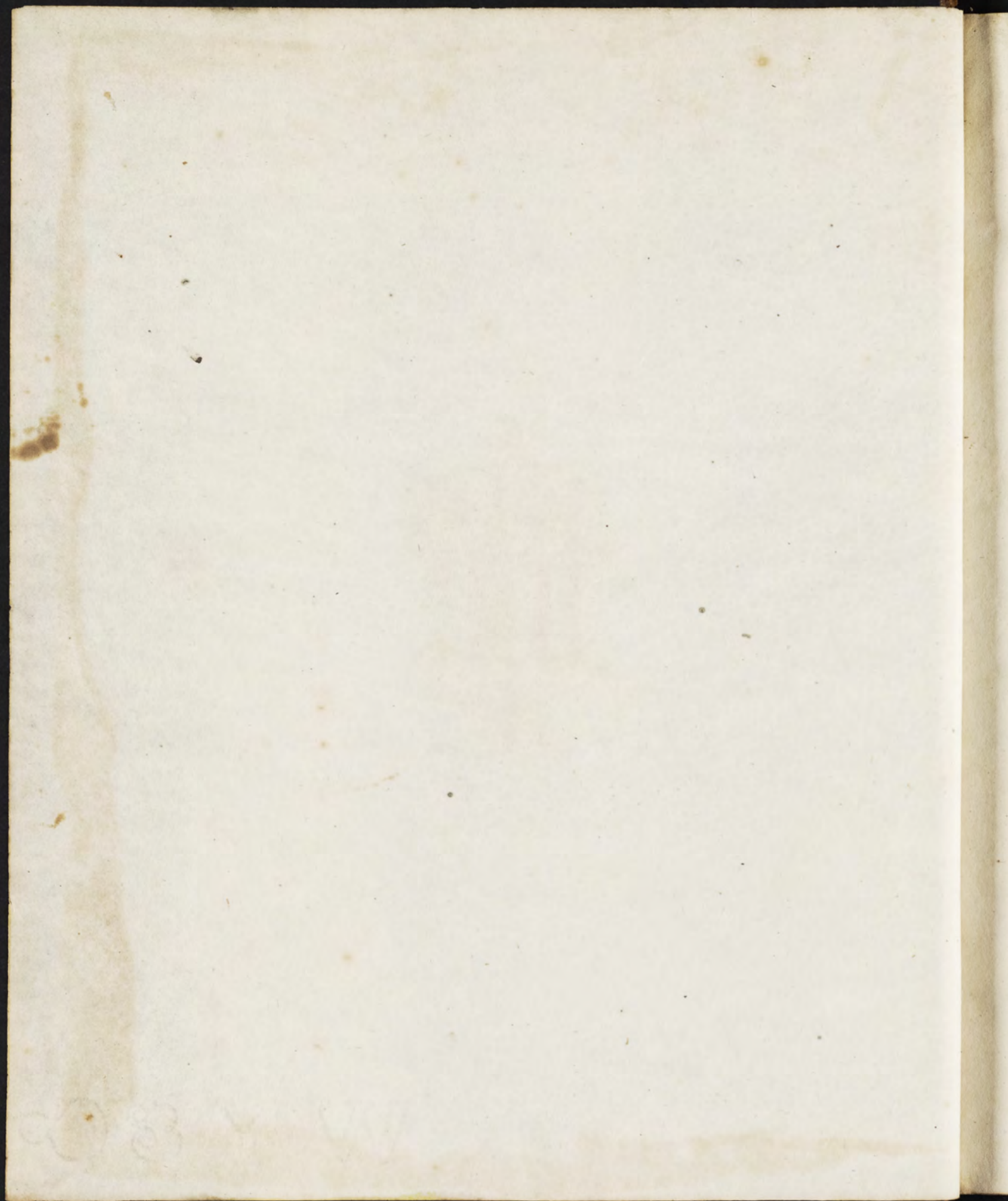


*Thos. Forrest Bolton.*



Levator Palati  
De-  
Superior





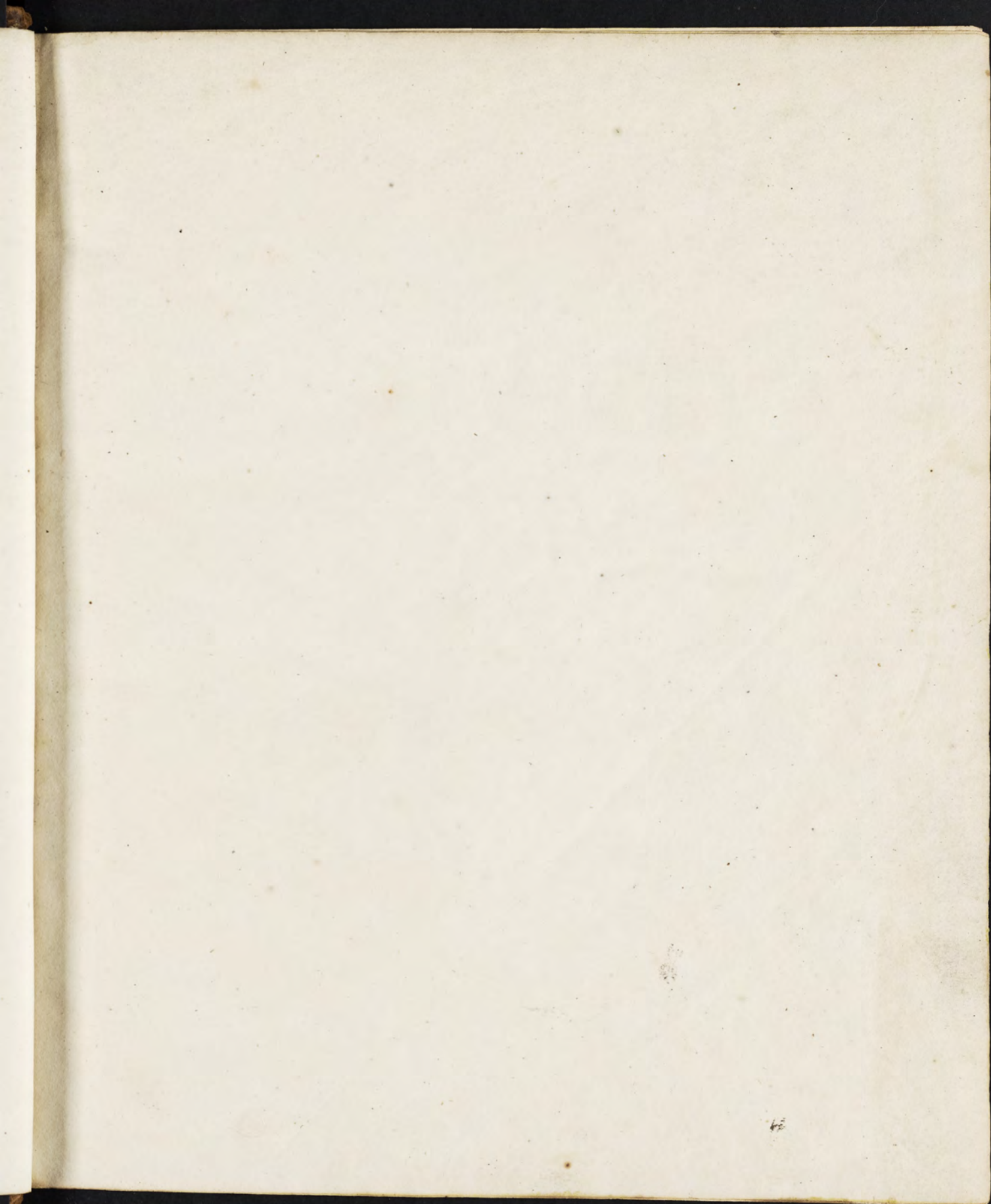


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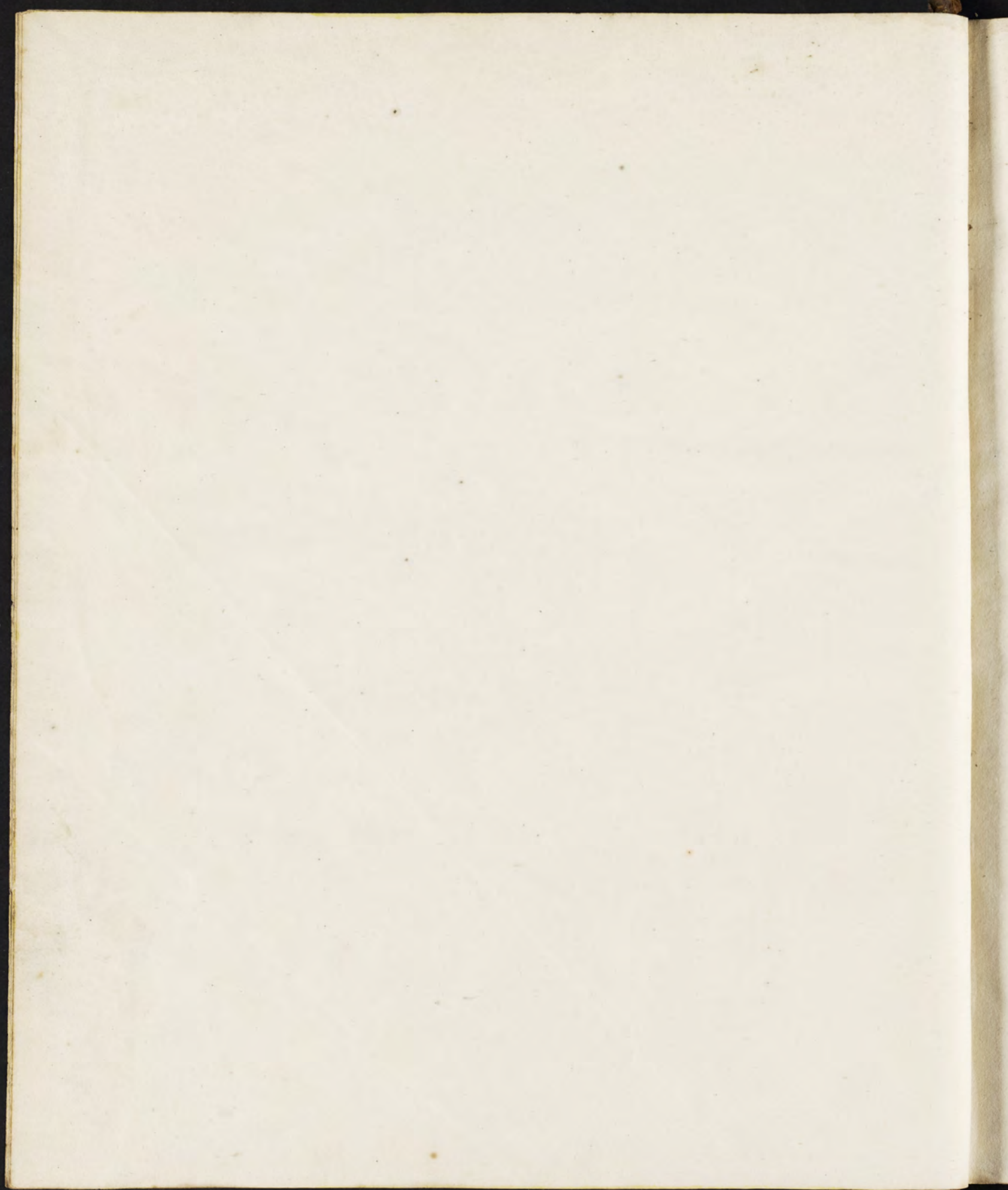


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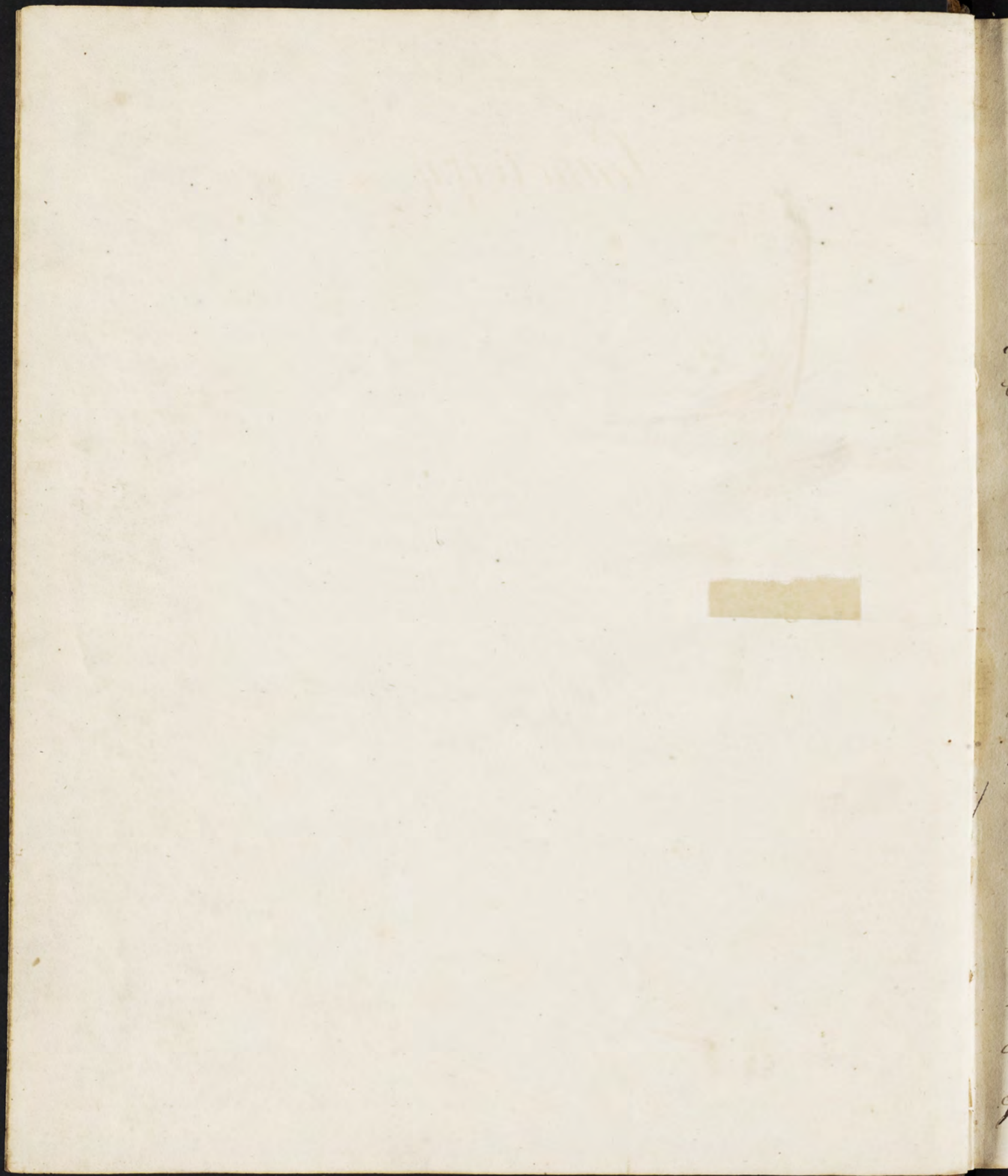






Benj. Rush.





# Pathology

Gentlemen

Hitherto we have considered the living body in a healthy state; such as divines considered man before his fall; but now we will consider him in an imperfect or diseased state, Sickness & death as a moral evil are the consequences of the forfeiture of primal innocence, which, as soon as lost, was followed by these effects. Every element in nature took a part with the Creator & conspired with him against man. Their action at first however was feeble & slow, as we find by the age of some who almost reach'd 1000 years & it was not till after the deluge that the life of man was protracted to the present age; the influence of which together with the atmosphere conspired to produce That Life in a forced state is no less consonant to religion, than to true Philosophy.

Life consists in a strife or a temporary victory over causes which tend to induce death, Let us not suppose that the creator delights in the misery of his creatures, so far as this being the case all diseases are blessings in disguise. They are necessary to our general good and happiness, they are of important uses.





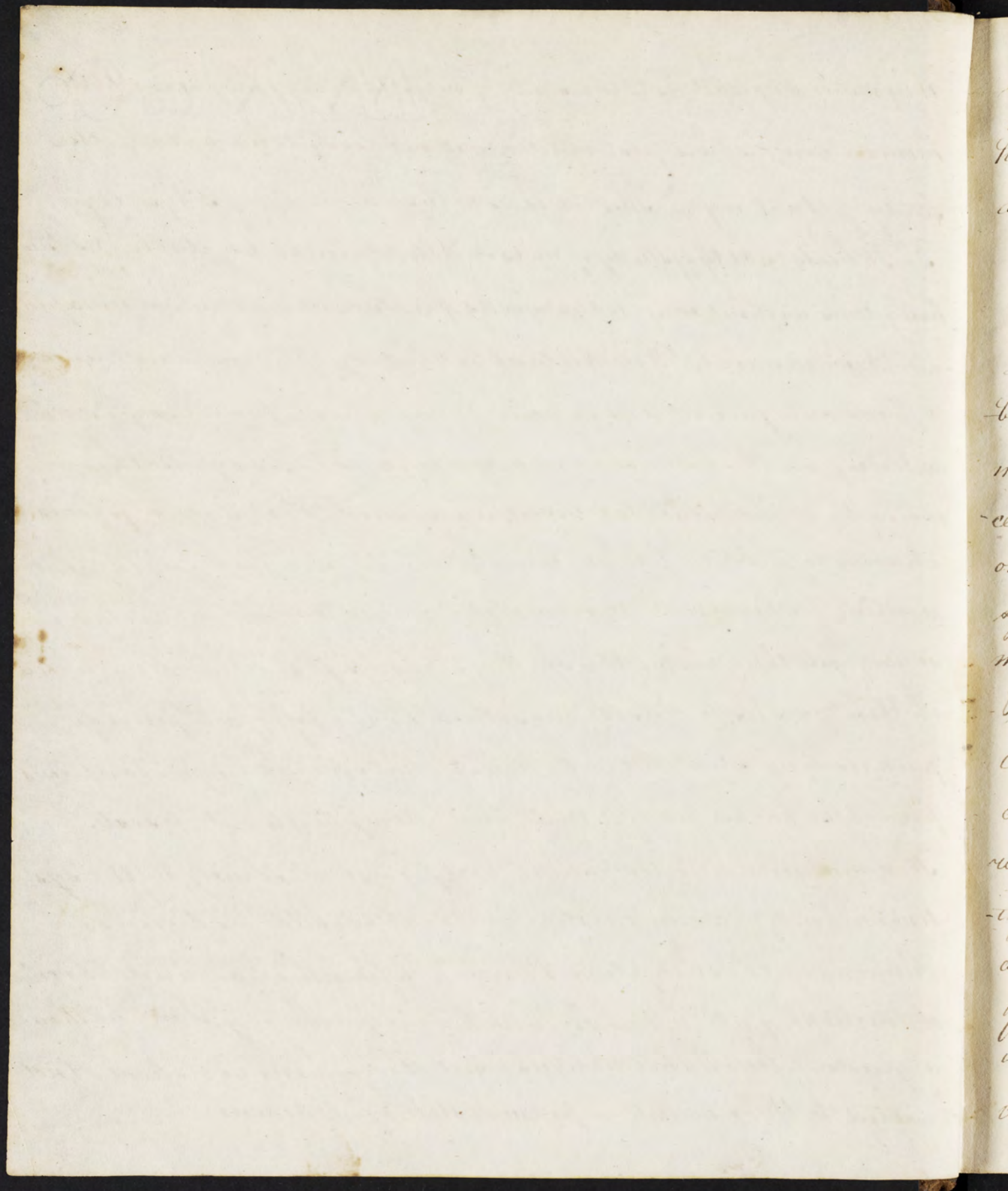
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they naturally lead us to the study of subjects highly important to the human race, diseases first rendered it necessary to undertake the study of Anatomy, 2<sup>d</sup> This leads us to the knowledge of Physiology 3<sup>d</sup> It leads us to the study of nature & the animal vegetable & Mineral Kingdoms, without which the works of nature would remain unexplored & unadmired, 4<sup>th</sup> it leads us to the study of the human mind affords and furnishes us exercise for our moral faculties, for without diseases there would be no benevolence or Charity, also there would be no Hospitals to relieve the indigent, 5<sup>th</sup> its darkness gives charms to light, in like manner is disease necessary to impart a relish for health. 6<sup>th</sup> it serves to increase our moral virtue for many owe their virtue to a spell of sickness. 7<sup>th</sup> it reconciles us to death & induces us to console ourselves for the loss of our friends. Pain itself unconnected with disease has several important uses. Pain is the harbinger of disease and often points out its seat.

Those diseases or disorders which creep or steal slowly on the system without pain are most to be dreaded, such as Cancers Pulmonary Consumption, Chronic inflammation and Chronic obstructions of all kinds, on entering on pathology, I am without a guide, Boerhaave's notions and observations are short & not suited to the present improved state of medicine.





3

Gaubeus attempts to bring it into a system, but it is so full of the humoral doctrine, that it is of little service to Students of the present day.

*Pathology* treats of the causes signs & seats of diseases. The different causes of diseases may be divided into four, 1<sup>st</sup> Remote 2<sup>nd</sup> Predisposing 3<sup>rd</sup> Occasional or exciting 4<sup>th</sup> Proximate (or morbus in se) They are all links of one chain; For instance in an Inflammatory fever 1<sup>st</sup> Cold is the remote cause, 2<sup>nd</sup> The debility produced by the cold is the predisposing cause, 3<sup>rd</sup> Heat the occasional or exciting cause & 4<sup>th</sup> Convulsions or morbid action of the arterial system, the proximate cause, By the proximate cause I mean the morbus in se of Galien, or the disease itself. 1<sup>st</sup> General predisposition & debility is the predisposing cause & debility is the predisposing cause of all diseases, whether it be natural or acquired, by natural debility I mean a predisposition to disease brought into the world with us, This debility is always attended with more or less irritability, Predisposition or debility is acquired in Infancy Youth in adult life and in old age, in a great variety of ~~Instances~~ ways all of which shall be taken notice of hereafter. It is acquired in infancy and children by injuries at the time of birth, by the custom of washing the tender skin of Infants with Ard<sup>r</sup> Spirits



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*



By aliments of an unwholesome quality, or the excessive quantity  
By the passions of Nurses & Mothers, By improper methods of dress-  
ing, By Opium Ardent Spirits &c. being given to Children  
than which nothing is more injurious, By premature applications  
of the mind to study, particularly such studies as are propor-  
tioned to the faculties of a child, as Grammar, dead languages  
&c. By confinement to close school rooms, without exercise, envel-  
oped by Arotic Air for 6 or 7 hours, to which may be added  
the despotism of Schoolmasters, By falls and other accidents  
By Children being taken up by the heels or hair of the head &c.  
By being shaken violently by Angry Nurses or Mothers &c.  
debility whether natural or acquired when it occupies any  
particular part of the body has been called a Temperament.  
The temperaments as divided By the ancients are Four viz  
Sanguineus, Bilious, Plegmatic and Melancholic, but I ob-  
ject to the term temperament as conveying no definite mean-  
ing, and I adopt in its stead Predisposition, by which I mean  
a preternatural aptness to disease in any particular part  
of the body founded on debility either natural or acquired  
and attended with a preternatural excitability, By excitabil-  
ity I mean a capacity of being acted on by Stimuli —



2  
There are 9 predispositions

Stability is seldom general but occurring for the most part but one system of the body predisposing to disease.

Predispositions are divided into 1<sup>st</sup> Arterial 2<sup>d</sup> Hepatic 3<sup>rd</sup> Nervous 4<sup>th</sup> Muscular 5<sup>th</sup> Cephalic 6<sup>th</sup> Phrenetic / Alimentary 8<sup>th</sup> Lymphatic & 9<sup>th</sup> Cutaneous. Arterial Predisposition is subdivided into Aortic, Pulmonary & Uterine and predisposes to acute diseases, especially in warm climates. There is an excess of blood &c. Hepatic. Persons of hepatic predispositions, are said to have Livers preternaturally large that secrete a preternatural quantity of bile exists most frequently in warm climates & in autumn discovers itself by aptitude to Diarrhea Colic &c.

Nervous - discovers itself by a susceptibility of being acted violently upon by the slightest corporal or mental impressions. Persons of this predisposition are subject to Hypochondriasis & Hysteria. Happy and miserable half a dozen times a day.

Cephalic, is attended with aptitude to head ache Vertigo Apoplexy and Palsy, differs from Phrenetic in occupying the Inferior part of the brain.

Phrenetic differs from the Cephalic in occupying the superior part of the brain & discovers itself in early life by an uncommon aptitude to acquire knowledge quick Perception is





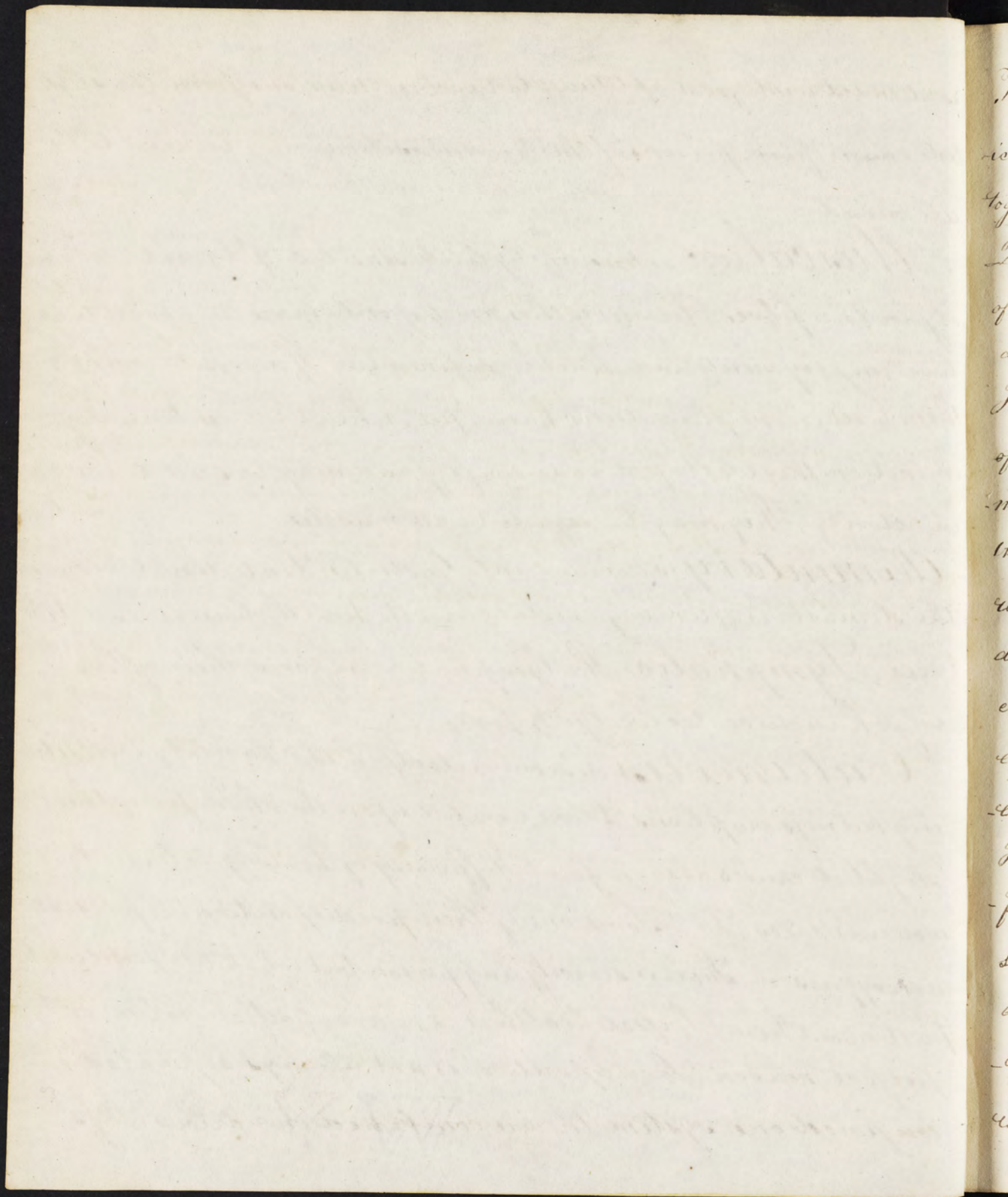
is attended with great aptitude to become delirious from the slightest causes fever persons of this predisposition may be said to be all mind.

*Muscular* is known by little sensibility & great irritability in the fibres. Persons of this predisposition are disposed to active employments and dislike confinement. If necessity compels them to set in one place their hand feet & head are continually in motion they walk fast ride swiftly and may be said to rest in activity. They may be said to be all muscles.

*Alimentary* is divided into Gastric & intestinal because the stomach is often very excitable with healthy bowels and vice versa. *Lymphatic* The lymphatic perform their office which induce Celerity & force.

*Cutaneous* discovers itself in the facility with itching redness eruptions &c are excited upon the skin from the slightest causes, also in great difficulty of healing external wounds sores &c. Some one of these predispositions, is present in every person. There is scarcely any person but what has some weak part about him. Perfect health is as rare as perfect virtue or perfect reason. Predisposition is not always separated or confined one system, they are combined in various ways.





The Hepatic & Alimentary are often united, Nervous Muscular & Cephalic in Persons subject to Epilepsy, the nervous & Cephalic are often blended together, Nervous & Arterial sometimes combined in Hysterical persons. Predispositions vary in different periods of Life & in different seasons of the year. Thus the alimentary prevails in early life, Arterial in middle and Nervous and Cephalic in old age, Arterial predominates in spring, Hepatic in Spring Summer, Nervous in autumn. Predisposition often descend from Father to son, but are mixed, changed or lost by intermarriage with strangers. Some nations loose their predispositions by the intermission of Strangers. The weakness in one part commonly altered with preternatural strength in others. The same remote causes act very differently in Persons of different predispositions, Persons with the same exercise and age & on the same day may be taken with different diseases according as the different predispositions predispose to different affections, the same medicines also produce different effects. The same Epidemic also appears with different symptoms. This difference of predisposition explains the reason why the gout attacks such opposite parts of the body. The weakest parts certainly attracts disease. Lord Cornwallis used to say he could always tell the weakest part of his camp by Genl. Lee always being sure to attack the weakest part, a man may tell which is the weakest part about him.





By the same means for diseases will attack that part, Relief has been given to many disorders by the cessation of predisposition from want of excitability thro' the influence of time <sup>the disorder</sup> or when excitement is below what is natural. Healthy exciton may be placed at 50, this is kept up by the stimuli which support life already enumerated. If part of these stimuli are suddenly abstracted the excitement will come down to 40, there being at the same time an accumulation of excitability, that is the debility of abstraction. If the number or force of stimuli be suddenly increased the excitement first rises to 60 and then descends to 40 carrying along with it suffocating excitement. This is the debility from action. Debility from both its causes occurs most frequently in Children & in Old people & in the middle of the night, in the morning & evening. Debility admits of considerable range and does not always end in disease. Elevated excitement does not always is the usual premonitory sign of disease, if the causes of debility continue to act long or their force or their number is increased, depression will take place. The Signs of depression are coldness, heaviness weariness and depression of Spirits contraction or paleness of the skin, debility ranges from 40 to 60, but there is only a cobweb partition between depression and disease, depression forbids action & calls for repose abstinence &c. The electric rod does not more certainly attract lightning from the clouds



unboise point, la. Lumsden

coming to meet at Christmas

They are often combined

in the state at first, 1st Quarter

when it becomes chronic

but they seldom return because

the early has time to increase

accumulation of error to

they suffer severely, what the

construction is in the

"and inertia - ... the members"

at this nature on discone

than debility invites to depression & depression to disease, debility and depression do not always exist in a separate state they are often combined, both existing at the same time in different parts of the body, Accession of stimulus acting upon the accumulated excitability seems necessary to the production of disease, A Loss of Equilibrium as when first falling asleep &c are sometimes sufficient to produce it, Soldiers & Sailors &c escape disease while they Labour constantly Physicians seldom get sick till Patients begin to get well, a sudden accumulation of excitability is prevented after violent exercise by abstracting it gradually. When stimuli are continued so long as to excite debility, obstructions &c may be produced without disease and this may be termed disorder. Disorders are morbid affections in different parts of the body, in which there is a want or expenditure of excitability with a waste of sensibility and irritability; a want of sensibility and motion it occurs in the forms of stupor Torpor &c <sup>Excitation</sup> and it is commonly occasioned by the force and number of stimuli being so great as suddenly as to destroy excitability thus preventing the destruction of disease. Disorders are most common in Southern climates, Chronic obstructions of all kinds are disorders, disorders are many diseases in a unit.

General Proposition - all the remote and exciting causes of disease however diversified are an unit, all included under the name of Stimulus <sup>or Irritant</sup>



Am. above with less than 1/2 of the  
as contrast and

+ in any of the crops -

is

1/2 of the

1/2 of the



10

the diseases produced by them are the same, as fire is the same whether generated by friction, percussion detonation Electricity &c.

**General Proposition**, diseases when excited consist in morbid excitement or irregular action in which nature is driven from the helm, & the functions of the body are performed with difficulty. Excitement may be excessive and not morbid, as in excessive or elevated excitement produced by running dancing or any violent exercise. disease is often combined with the remains of depression & sometimes of predisposing debility. The remote and exciting causes of disease are often blended together and act at the same time, also the exciting and predisposing. Disease is either obvious, sensible or suffocated, reaction is the effect partly of the elasticity of the muscular fibres, morbid excitement is often greatly disproportioned to cause suffocated excitement - discovers itself by wakefulness flushed countenance, yellowish or redness of the eyes, pulse natural it may be converted into obvious disease by

**General Proposition** Morbid excitement or disease is always partial. Thus in fevers it is chiefly confined to the blood vessels in Mania to the brain, In tetanus to the muscles in dysentery to the intestines, absence of excitement in some one part seems necessary to favor its accumulation in others parts. Absence of healthy excitement in one part seems necessary



by hand

there is no direct line

to favor its accumulation in other parts parts, Absence of healthy excitement in one part seems necessary to a morbid accumulation of it another. There are frequently days weeks and even years between debility and the morbid excitement produced by it.

**General Proposition.** There is but one fever one disease throughout the world & all its forms are produced by morbid excitement or irregular action. There is but one sin and that is self Love, Adam was affected by debility in his will when he ate of the forbidden fruit. It is immaterial where situated or however varied by texture, while I contend for the unity of disease, Obstructions and shivers of the Liver are the effects of disease & not disease, All disorders are confined to cases where morb. excit<sup>n</sup> has ceased or were never excited.

Disorders are many ~~disease~~ but one. Many people die of debility or disorder without disease, Where disease is present the whole system is more or less deranged by it. There is preternatural excitement without excitability & excitability without excitement.

Old associations are destroyed, The system affected with disease may be compared to a Ship in a Storm at sea, Nature is driven from the helm and every thing is thrown out of its natural situation.

Disease may be compared to a Ladder ascending & descending by the following Steps, 1<sup>st</sup> Elevated natural excitement, 2<sup>d</sup>





Debility (or predisposition) whether from action or abstraction 3<sup>d</sup>

Supernatural accumulation of excitability, 4<sup>th</sup> depression & action of  
an exciting cause or an irritant 5<sup>th</sup> Prostration of excitement below  
the point of reaction to such a degree as to be relieved by stimulants  
& not evacuants 6<sup>th</sup> Disorders or effects of disease, 10<sup>th</sup> & lastly de-  
bility left by the cure or removal of disease, This is the usual order  
but there are many exceptions, sometimes remote causes leap over  
debility & depression and directly induces disease, sometimes  
overleaps disease and produces disorders, remote causes are sometimes  
so violent as to leap over all the intermediate steps inducing sud-  
den death, We sometimes see debility Oppression Depression  
Disease Disorders & death, all at the same time occupying dif-  
ferent parts of the system, Inflammation) not as Wundt supposes  
the highest grade of disease, is the effect of disease & only takes place  
when morbid excitement is moderate, Death often occurs without  
Inflammation as in violent Fevers that kill suddenly, they kill  
by the immense force of the remote cause extinguishing Life without  
giving it time for the production of Inflammation or even dis-  
ease, Death often occurs from Hydrocephalus Internus  
Apoplexy &c without any Inflammation discoverable on dissec-  
tion, Morbid excit<sup>m</sup> is sometimes so violent as not to admit  
of effusion of any kind



Question. How many forms of disease are there

Answer - Six. 1<sup>st</sup> convulsions

2 Spasms

3 Preternatural heat

4<sup>th</sup> Itching

5<sup>th</sup> Oozes or Sticks

6, suppurated excrement

Question do you confine the forms of disease to Six

Answer. No. there may be many grades of them

The worst opthalmia are those where Inflammation is not evident of the Eyes they may be made so by the plentiful bloodletting we are born with an innate predisposition to disease or morbid excitement

The Different Forms of Disease are Six viz

1<sup>st</sup> Convulsion the proximate cause of fever, This is chiefly confined to the blood vessels & Muscles occurs in Fevers Parturition &c

2<sup>d</sup> Spasm This affects the muscles as in Cramp, the bowels as in Colic, The stomach as in Gastrodynia, the Trachea as in Cynanche Trachealis, the Uterus as in Parturition &c It is divided into <sup>the former</sup> Chronic & Chronic the former is constant, the latter alternative

3<sup>d</sup> Externatural heat either internal or external, as in the Skin & Stomach &c the latter

4<sup>th</sup> Itching, This occurs on different parts of the Skin Anus, Pudenda

5<sup>th</sup> Aura or Sticks; as Aura Arthritica in Gout & an aura called by the French Tic Doloireux, This occurs chiefly in the Lungs & Brain <sup>6<sup>th</sup> Suffocated excitement</sup> Blood vessels, I have known it in the head it consist of sudden darting pains, as a shock of Electricity it goes and comes on

It by no means limit the forms of disease to 6 there are probably many shades and grades of the six primary forms, all issue from one cause morbid excitement, There is hardly any disease confined exclusively to one form of morbid excitement, often 2 or more exist at once in the same part, sometimes they are all present at the same time, but in different parts



Two pairs columns of subserius  
center in R. Co  
The more later in the  
the more on

over from and differ times

Sometimes they succeed each other in the same part and even on the same day. As we see storms sometimes with wind, then rain hail snow &c. Now storms are a unit, and arise only from cause morbid excitement in the atmosphere. Thus Gent I have given you the history of the Phenomena of disease, it may in every disease in a greater or less degree, my labours of 50 years and the works of Dr Sydenham Application of the above Principles. When excitement is elevated regard the system in a unsafe state, remove stimuli of all kinds. Advise rest, remove the predisposing cause debility by gentle stimuli gradually applied, defend the system with double the care, when debility is the greatest, at midnight in the morning and evening gradually expend excitm to prevent accumulation of excitability. If disease consist of irregular action, let your remedies be calculated to make it regular. Is disease an unit then why not remove the same grade of it wherever seated by the same remedies. Typhus pulse whether it occurs in Fever, in Pulmonary Consumption or in madness, Calls for similar remedies. The same grade of morbid excitement in the Lungs, Brain Liver Bowels &c call for similar remedies. I do not however mean to say that disease is always to be cured by the same remedies they require to be varied according to the part affected and the violence of the disease &c



We next inquire into the effects of  
the use —

2. <sup>from I feel calm, equal</sup>  
Exhaustion of effluvia producing drowsy

3. Changes certain fainter some

4. Cancer

5. Changes in the blood

6. Gangrene

Heats of disease are

1st many diseases are dumb —

3. Ify changes in the weather are  
certain medicines

The Signs of Disease. A few observations <sup>are</sup> necessary  
They have been divided into common and proper, also into Primary &  
Secondary, Symptoms of disease have been divided into Diagnostic & Pa-  
thognomic, They are however uncertain and unnecessary

1<sup>st</sup> Relation, Sympathy & Association different in the diseased &  
healthy state. — common and proper

2<sup>d</sup> Signs of the same diseases are different in different people

3<sup>d</sup> They differ in force of the same disease in the same Persons  
<sup>by their peculiarities</sup>

4<sup>th</sup> They differ in Climate in the same Persons

5<sup>th</sup> They are in many instances a part of the same disease

6<sup>th</sup> They differ in some diseases, <sup>they are the same disease</sup>

7<sup>th</sup> They differ as relate to its forming state

8<sup>th</sup> They differ as relate to its height, crisis and tendency to health

9<sup>th</sup> They in different days differ

The Signs of the different diseases are, <sup>to be</sup> taken

1<sup>st</sup> From Perspiration urine and faeces including the quantity quality  
and times of discharge Costiveness is the sign of Predisposition to Dy-  
sentery; vertigo and Apoplexy

2<sup>d</sup> The Tongue, 3<sup>d</sup> Respiration, 4<sup>th</sup> Conversation & Countenance

5<sup>th</sup> The position of the body in bed, 6<sup>th</sup> State of the Muscles

7<sup>th</sup> Appetite 8<sup>th</sup> Mental Faculties 9<sup>th</sup> State of the body as to heat  
or cold, 10<sup>th</sup> Existence <sup>or non existence</sup> of Pain, also the nature of it



He will not depend  
on any country, above us  
northward,

//, rest and entire

Aspects in view —

Lesson —

pressing in the horses

bridle in the brain

and in the head

Remarks on Pain. There are three causes of pain, 1<sup>st</sup>  
Stimulus over distending & producing a tendency to Mechanical  
solution as in fever, relaxation of Bones &c, 2<sup>d</sup> By such a relaxation  
of fibres as disposes them mechanically to contract, 3<sup>d</sup> certain  
chemical Stimuli. The signs of pain appear in every part of the  
Body, all in a convulsed or contracted state, Hence the Phrase of  
biting the dust, It produces the Eps of domestic affections, The head  
pays dearly for its pre-eminence as the seat of the mind, as it suffers  
by sympathy with every important Viscus  
Stomach Uterus Liver Spleen &c, That pain may be felt it is ne-  
cessary that the extremities of the Nerves & the mind be not pre-  
occupied so as not to be elevated above the grade of pain, sometimes  
in highly elevated states Blisters cannot be felt, also when the sys-  
tem is below the grade of pain, as in low states of Typhus Epilepsy  
& Drunkenness have suspended the pains of Parturition  
An insensibility to the pains of wounds in Cattle is owing to  
the excitement of the system being above the grade of pain, some  
submit to the pains of Severe operations with readiness, Insensibil-  
ity of the primitive martyrs to pain amidst all their sufferings  
owing to the same cause, and, when Indians are suffering they  
will cry out I made your Brother or Father suffer before, Pain va-  
ries with the cause producing it, Thus Pain from a blunt



Paint is diminished into Mechanism  
And Chemistry —

Chemical. Solid heat

Mess — blood —

injury from a blunt instrument is different from pain when the injury is done by a sharp instrument. Pain at first excites the mind, afterwards agitates it with the fear of death, in a very high grade it occasions the Sufferer to call upon his maker, or dear or departed friends, sometimes it occasions sudden Silence, singing laughing, occasioning transport of Glory. Pain is most sensibly felt in the extremities of Nerves. Pain does not always accompany disease, nor always proportionate to disease, Pain is often induced in a part remote from the impression producing it, Pain is of an attractive nature. This explains the reasons why fevers attended with much <sup>pain</sup> in the back & bones are rarely fatal, Pain is most felt, sensible, in persons of a Muscular Predisposition, women most susceptible of during the periods of Menstruation and Pregnancy. Circumstances of a Consolitary nature with respect to pain, 1<sup>st</sup> It is seldom constant but has intervals of ease & is then best borne as we see in Colic Stone &c. 2<sup>d</sup> Incurable pain is seldom acute but dull as in cancer &c. 3<sup>d</sup> Constant pain is contrary to nature as it destroys itself by wearing away the excitability.

1<sup>st</sup> There are diseases without pain. 2<sup>d</sup> The pain is not always proportionate, 3<sup>d</sup> often felt in parts remote from the disease, as headache from Bile in the Stomach 4<sup>th</sup> Altho an unit it in parts different sensations according to its grade, being acute in membranes



1st they give no zig by pain

3rd change to the north and def

4th deflection does not always  
show in the seat -

Galen, was the first who said any thing about  
the Pulse

The natural and healthy Pulse is known  
by its being, open, vigorous soft free from all kind  
of resistance - - - - -

twisting in the bowels, jumping in the tooth ache &c &c.

Related to Pain is Anxiety. Nausea is another sign of disease different from pain & anxiety, Pain is sometimes so acute as to destroy Life, I must here again repeat, all the signs that of the Pulse is the most valuable, Diseases of the head yield most readily to purging, Those of the bowels to purging, Those of the Lungs to Bleeding, Those of the Limbs to Blisters, Is there no sign of disease in the visceræ but pain? Yes the tongue Pulse Countenance perspiration respiration urine &c &c. Of these I regard the pulse as the most valuable, but let not any of these direct you as to the causes of disease or in your prescription for them, My doctrine rejects none of these but in it the greatest homage is paid to the

## Pulse.

This Pulse may be called a Barometer or compared to the dial plate of a Clock or watch, it informs you of all that is going on within. In order to acquire an accurate knowledge of the Pulse in its diseased state, it is necessary in its healthy state, and also in the different stages of Life, a healthy Pulse beats 66 strokes in a minute from 66 to 80 soft vigorous free from all sense of resistance and equal intervals between each pulsation. This state differs under different circumstances, 1<sup>st</sup> it varies according to the age of the Person, At the commencement of Life or a few days or



The Pulse in old people undergoes three changes

1<sup>st</sup> Frequency

2<sup>d</sup> It becomes more full —

3<sup>d</sup> It intermits. — — —

It is a good sign in sickness when an old man's pulse begins to intermit —

Mrs. Hare found the Quack  
to be a hunt party —

Two weeks after birth, the Pulse ranges between 130 and 140 strokes in a minute, towards the end of the first year 124 at two years of age from 115 to 116 at 3 from 90 to 100 at 4, 5, or 6 years of age from 80 to 100 & at seven it falls from 90 to 72. In adults it is from 60 to 80 generally 66 in the minute. In old age it is slow and intermitting. This is so much the case that when it is otherwise it shows signs of disease, at the age of 60 the Pulse beats 60. In old persons of this type its beats only 36. In some according to Dr. Weber - don it descends as low as 26.

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In Males, 2<sup>d</sup> Sex influences the Pulse in its quickness, that of Females being much more frequent than that of Males.

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3<sup>d</sup> different States of Society or Civilization influences the pulse. It is slower in Savages than in Persons brought up in a civilized state. Savages want the numerous stimuli of thought conversation &c. which civilized people enjoy, hence the Pulse is less frequent in Countrymen than in Citizens. I have felt the pulse of 10 Indians and found it below 60 in 8 of them the other two reached that number but one of them had been previously sitting by a fire & the other was the offspring of a French man. All those who spend their lives in Idleness have slower pulses than those who are busily employed.

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4<sup>th</sup> the size of people affect the Arterial system, its pulsatory motion being quicker in the Short or Low, Ceteris paribus than in the tall.

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by light and darkness -

5<sup>th</sup> Climate & the different seasons of the year affect the pulse, being quicker in warm than in cold climates. In Greenland it scarcely exceeds 40, In the West Indies quick in new comers than in the Inhabitants, In new imported Slaves it is quicker than in those we have had some time among us.

6<sup>th</sup> Different times of the day influence the Pulse, It is slower in the morning, at noon it is at its highest & then gradually descends till evening, at bed time it is generally slowest on account of the excitability being worn down.

7<sup>th</sup> Different in the sleeping & waking State slower in the former than 10 strokes.

8<sup>th</sup> Different positions of the Body Influence the frequency of Pulse, thus it is slowest when on the back, quicker when on the sides, quicker still when sitting up, & quickest while in an erect posture.

9<sup>th</sup> Fasting food and drink especially such as are stimulating influence the Pulse by quicken it, accelerated by a full meal & diminished by fasting for some time, but afterwards it rises, so persons who die of famine die of a fever.

10<sup>th</sup> Different positions of the arm influence the Pulse, when the arm has been exposed to the Cold some time, the pulse becomes much slower & also when the arm is pressed under the Body, and when its Muscles are in action, hence the Propriety of warming and



x it is quiescent. Here all silver

genuine to 60 -

grufo to 60 - - - - -

Mercury when it begins to touch the  
mouth -

" Mercury quiesces it. When it begins to touch the  
mouth. - - - - -

\* and suspending respiration

relaxing the muscles of the arm before we feel the Pulse —  
11<sup>th</sup> Exercise of the understanding & the Passions of the mind,  
those of the Sedative lowering and vice versa —

12<sup>th</sup> Anger quickens it to 104 conversation quickens it, hence  
the propriety of feeling the Pulse before the Patient begins to de-  
scribe his disease —

13<sup>th</sup> Bodily exercise. If the natural state of the Pulse be 64  
when sitting, standing will increase it to 68, walking at the  
rate of two miles an hour to 78, four miles to 88 & running  
from 140 to 160 in a minute, —

14<sup>th</sup> Pregnancy quickens it. Quickens also when the menses  
flow and during menstruation. It is of consequence to know  
this in Chronic Cases of disease. All Pregnant women have  
their Pulse preternaturally quick or slow —

15<sup>th</sup> Certain Medicines quicken the Pulse, such as opium, cam-  
phire, Turpentine, Barks, Blisters, Steel, hot and cold Baths &c.  
Blisters affect the pulse more or less according to the parts appli-  
ed, we ~~must~~ must know the Blister pulse, Opium Pulse &  
Mercurial Pulse &c to distinguish them from the morbid pulses —

16<sup>th</sup> Coughing quickens it, ~~the patient may expectorate~~

17<sup>th</sup> Fear influences it, hence in visiting a Patient we should  
wait a few moments, in order to let him get over the agitation



+ Judge Peters -  
Judge Peters. -

19<sup>th</sup> Light and darkness. --

produced by our presence, I have seen the pulse fall after prescribing  
Vf. 18<sup>th</sup> Intensity of thought influences respiration quickens the  
Pulse, There are some deviations from the general rules of the Pulse  
for example, there is a Gent in this City whose Pulse is 100 in a min-  
ute when in good health, & a Lady whose pulse does not exceed  
40 in a minute in health & 60 in a high fever, In others it is pre-  
ternaturally quick, I heard of a Clergyman whose pulse in a  
healthy state beat 100 in a minute, a fever afterwards restored it  
to the common standard. there must have been too much excita-  
bility in the system, this diseased or morbid state was remov-  
ed by the action of a fever, Before I enter upon the morbid  
states of the pulse, I deem it necessary to deliver a few Physio-  
logical propositions—

1<sup>st</sup> The Heart & arteries are connected & invested with muscu-  
lar fibres possessing great irritability or a susceptibility of being  
acted upon by the different stimuli, hence if one part be affected  
the whole will sympathize, They may be compared to the sensitive  
plants or to the Bells of the Jewish high priest touch one and all  
will ring, 2<sup>d</sup> The heart & <sup>and arteries</sup> muscular fibres possess irritability

3<sup>d</sup> The same motions excited in one part of the Arterial system  
are communicated to others, by means of their contiguous sym-  
pathy—



"his Pulse was small thread like and driving

and jerking

112 1792

This is illustrated by the case of Hicks who died in this city with an enlarged omentum, which pressed upon the Aorta, & affected the whole Arterial system, and contracted its diameter, (was very small the pulse,) " This will lead to the explanation of many other circumstances, for in most diseases we may expect to find the same kind of action in the Artery as in the diseased part, Is the Pulse tense in acute Pneumony? The same occurs in the Pleura or membrane of the Lungs in the whole arterial system, Are the vessels of the lungs engorged in a Pneumonia Notha, The same occurs in the whole, are there intermissions in the Pulsations of the heart? The same takes place in the whole arterial system, Is the Stomach or upper bowels inflamed? The pulse is small because the vessels of these parts are small The Pulse is more tense in Inflammation of the Colon only because the arteries of the Colon are larger, If the pulse is not small in Optalmia & Inflammations of the joints, it is only because larger vessels are brought into Contiguity.

There are diseases in which the pulse does not sympathize, but these are few & may arise from the following causes, 1<sup>st</sup> From a weakness of the heart itself, 2<sup>d</sup> From a want of irritability 3<sup>d</sup> From suffocated excitement, 4<sup>th</sup> from the disordered state of the artery at the wrist 5<sup>th</sup> From large portions of fat pressing upon the Pulse 6<sup>th</sup> from accidental pressure of the muscles of the arm, by the posture of the body



- 1st by weakness
- 2 from weakness of the artery at the
- 3 by fat
- 4 by compressing the artery
- 5 from the artery -
- 6 from the artery in  
supposition, in a heart
- 7 from artery
- 8 by a disease which affects  
only one side of the heart
- 9 from disease in the  
arteries in the lungs -
- 10 by blood, when the pulse  
is weak, from in part of the  
in inflammation the circulation is  
slowed -

6 From Cold, 7<sup>th</sup> From want of irritability in the Contiguous, 8<sup>th</sup> From want of sympathy in the heart preventing it from sympathizing equalizing the action of different parts, or the disease being insolated in the lungs as in Catarrh, the artery does not sympathize, so we are told in Catarrh without regard to the Pulse, 9<sup>th</sup> From unequal excitement in the blood vessels as in ataxia fevers of Alibert in Palsy & Cough, This want of harmony accounts for the fact mentioned by J Hunter, viz. sizzy blood with a natural pulse, There may be great disease in one part with little action in another, Let not the number of these exceptions preclude the feeling of the Pulse for they do not occur in more than one case in 20 & we sometimes see the absence of pain in Malignant fevers when the tongue is foul &c. and vice versa in diseases of less consequence

Thus have I mentioned the different states of the pulse as they occur naturally in different stages of perfect life, But as Physicians it becomes us to go farther & acquire a knowledge of this important part of the human frame as it varies in consequence of the numerous incidents & diseases to which it is subjected to viz

## The Morbid states of the Pulse

These are known 1<sup>st</sup> First by their frequency & quickness, These are not necessarily connected for the pulse may be very quick and yet not frequent as in the yellow fever, By frequency is meant the number of



My dear Mr. Garrison

The. Boston, 1840.

of strokes in a given time examined, & By quickness the time in which each stroke is performed, The Pulse varies from health in quickness & fullness as in yellow fever & other acute diseases to 40, 30, 20 & in two or more cases, to 9. In Apopley it sometimes falls as low as 7 —

The quickness is probably caused by an irritable state of the blood vessels, they contract more quickly by the stimulus of the blood (the Arteries especially) this irritability I conceive to be induced by the stimulus Miasmatic - hence it occurs in Intermittent yellow fever &c. This circumstance gives rise to the intermitting pulse, this is when there is a cessation of pulsation for a certain time after every 1<sup>st</sup> 2<sup>d</sup> or 3<sup>d</sup> stroke & frequently occurs in malignant fevers —

The slowness may depend upon Causes 1<sup>st</sup> pressure as in Apopley & Palsy the pulsation being equal to each other, but intermissions occurs 2<sup>d</sup> Spasm of the heart & 3<sup>d</sup> defect of irritability in the Arteries

2<sup>d</sup> By this force & irregularity, this is of more consequence than variation in frequency quickness and fullness, also by imparting a jerk sensation to the fingers, resembling a shattered quill — We

now proceed to consider the different states of the pulse as they occur in Fever 1<sup>st</sup> The depressed Pulse, This state of the pulse is occasioned by stimuli acting so violently as to depress the system below the point of reaction, or by pressure on some great vessel, It often descends so low as 10, 30-20 & sometime



100

✓

so depressed that it is imperceptible; In the depressed pulse the heart  
and Arteries ~~possess~~ <sup>will continue their</sup> immutability, It is raised by  $\phi$ . It is sometimes  
predominantly frequent or slow, attended with intermissions, & some-  
times natural, It occurs in Plague Yellow-Fever & Malignant Small  
pox & Rheumy, It is either partial or general, occurring in the extrem-  
ities in the former, & in the latter occasioned by stimuli depressing the  
strength below the healthy state. It resembles the weak or Typhus  
pulse; the following directions will serve to distinguish them.

1<sup>st</sup> The depressed pulse is known by its occurring in the beginning  
or forming states of fevers, or in the paroxysms of such fevers & other dis-  
eases as are periodical.

2<sup>d</sup> By imparting a sense of tension to the fingers when long and atten-  
tively felt

3<sup>d</sup> By occurring in morbid affections of the Brain Heart, Stomach  
& bowels more frequently than in diseases of other parts of the body.

4<sup>th</sup> By its being raised by bleeding, Purges &c. taking off the mor-  
bid excitement;

5<sup>th</sup> By its being frequently attended with slowness or intermissions  
This pulse may be compared to a tree bent, by the winds &c. rising  
to its pristine state when the storm blown over, while the Typhus  
resembles a tree shattered by lightning & which cannot be  
raised but by the hand of Art



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page. The text is arranged in approximately 15 horizontal lines.]*

## 2<sup>d</sup> The Catgut, Turkey or Locked Pulse

Generally quick, but not always frequent, is small quick tense & distinct, imparts a sensation to the fingers similar to that produced by feeling a piece of tense Cat Gut, whence I have named it. It occurs in malignant fevers.

## 3<sup>d</sup> The Synochus Fortis, This is the reverse of the two former

— a full round vigorous frequent & quick pulse without hardness which occurs in the highest grade of bilious fevers, Exercise produces a pulse somewhat similar to this ~~Phenomenon~~

## 6<sup>th</sup> Synochus Mitis, This is a full, round soft and frequent

— occurring in mild bilious fevers

## 5<sup>th</sup> Synocha, or common inflammatory pulse, being full quick frequent & tense, but not round, and is known by heat thirst &c, occurs in common inflammatory fevers, This pulse exists sometimes in the Plague, Ty Fever, Jail fever & small pox, but more frequently in Pneumonic affections, Rheumatism & hydrophobia

## 6<sup>th</sup> Synocula, A quick frequent moderately tense, but small pulse, A diminutive of Synocha, imparting a sensation to the fingers similar to a small quill, & occurs in Chronic, Rheumatism, Gout, Phthisis, Pulmonalis &c & in the 2<sup>d</sup> stages of other fevers

## 7<sup>th</sup> Synochoid, This is alternately a hard and soft



and the other with you  
in the common

Pulse, feels like a shattered quill & is a compound of Synochus & Synocha  
It occurs in the passage of fevers from the inflammatory to the low state  
of butler, or from an acute to a chronic disease, Feels like a quill that has  
been trodden on.

---

8<sup>th</sup> The Typhoid, a frequent & less tense than full pulse  
This is compound of Synocha & the slow chronic state of fevers & occurs  
in the Mectic & Purpurile Fevers & in Scarlatina &c. The pulses  
preceeding Typhus are ~~above~~ par those succeeding Typhoid are below par

9<sup>th</sup> The Typhus, a weak small frequent but not full or  
tense pulse, this occurs in the <sup>low</sup> ~~last~~ state of Chronic fevers, also in the  
close of inflammatory diseases, when depleting remedies have not  
been used in the first stage, The blood vessels in this appears to be  
deprived of a part of their irritability, it is here that ~~if~~ is forbid-  
den and stimulants are to be given

---

10<sup>th</sup> The Mectic Pulse, The forms of this pulse are various  
being occasionally Synochoid Typhoid & Typhus, It occurs in  
Phthisis Pulmonalis, Podagra of Tabes, from the Lues Venerea  
and Scrofula

---

11<sup>th</sup> The Hobbling Pulse is unequal or fluctuating, tense  
quick & very frequent & may be divided into two, 1<sup>st</sup> one two or three  
quick strokes succeeding a slow one & 2<sup>d</sup> one two or three slow  
strokes succeeding a quick one

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Printed in New York

12<sup>th</sup> The *Dicrotus* & *Caprisans* Pulse the former the Strongest

13<sup>th</sup> The serrated Pulse, Strikes the finger like a saw

14<sup>th</sup> The vermicular Pulse, Small frequent and resembling the motions of a worm

15<sup>th</sup> The Creeping Pulse, weak small occurs at the close of life

16<sup>th</sup> The apparently natural Pulse, occurs in the worst malignant fevers, great danger is to be apprehended from this, difficult to be distinguished from a healthy one

Rarely ever any one of these present alone, They are therefore combined 1<sup>st</sup> in double proportion, as full & weak, full & frequent, full & quick, quick & frequent, depressed & weak, slow and intermitting &c. the stroke which succeeds an intermission is twice as strong as the 2 or 3 preceding

2<sup>d</sup> They are combined <sup>pounded</sup> in a three fold ratio, as full strong & frequent, small weak & slow, at the same time, 3<sup>d</sup> In a four fold ratio as full strong quick & frequent at the same time

17<sup>th</sup> A full bounding, slow & moderately tense Pulse, This occurs in <sup>Paralysis</sup> Palsy, Dropsy &c. It is especially slow in the affected side as in Hemiplegia, I examined the Pulse of a Paralytic patient whose Artery beat on



Edward Owen

the affected side only 50 in a minute while on the other side it  
beat from 80 to 90

19<sup>th</sup> The Aneurismatic Pulse, <sup>large</sup> full tense and jar-  
ring, there is sometimes an absence of Pulse for 2 or 3 days I have  
heard of an instance of it for 7 days, This pulse occurs in aneurism,  
whence, its name, a total absence of the Pulse occurs often in violent  
affections of the Stomach & Bowels, it lasts for hours One Lady I  
have known to continue without a pulse for 36 hours in consequence  
of eating some oysters, this Lady has since recovered & been quite  
well for many years

In order to inform your patients of the state of the pulse, which some-  
times extremely anxious to know, you should compare it to a scale  
of 10 degrees with 5 above and 5 below the healthy point, the pulse  
is very much influenced by the state and strength of the body  
In a Pidgeon it is 100 in a dog 80, In a ram the Pulse has been  
found to beat 65 in an Ox from 36, to 38 in a horse from 34 to  
36 Strokes in a minute

I have now delivered all the pulses which have occurred  
in my Practice, Dr Galman, a French Physician which  
he calls the, <sup>10</sup> Gasco's Pulse, soft full & round, but sink-  
ing under the finger, even the pressure of the little fingers  
produces this



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

I shall next give you some directions for acquiring a knowledge of the state of the Pulse —

1<sup>st</sup> Never feel the patient pulse the moment you enter the room your presence excites hope, fear or some emotion in the mind which has an influence on the pulse. If the weather be cold warm your hands & feel first, but beware of entering into any conversation before you feel his pulse, as the influence of conversation upon the Pulse is very great —

2<sup>d</sup> Place your whole four fingers on the artery, this gives you a much better opportunity of judging than one finger could do.

3<sup>d</sup> If you feel the patients left arm use your right hand & vice versa

4<sup>th</sup> Feel the wrist of both arms, as there is in many cases a difference in the two from several circumstances, as an exposure of one arm to cold air, pressure on the Artery &c &c —

I have corrected my judgment frequently in this manner from one arm I prescribed bleeding, from the other I retracted my opinion, Never remove your hand till you have felt 20 strokes, I have observed an intermission in the Pulse at the 18<sup>th</sup> stroke, The Chinese Physicians feel 69 and hence perhaps their accuracy in the Pulse. — If the case be critical shut your eyes and order silence in the room —





To use an expression of Dr Darwin's "Concentrate all sensorial power in your fingers ends" The influence of sound &c detract from the accuracy of feeling. If the radial be from any cause not easily felt, feel the temporal Artery which is next best. I have Gentlemen excuse my making mention of Blisters the caution in applying them, Never apply them so as to prevent your feeling the pulse, if you do feel it afterwards you give so much pain as to make an alteration in the pulse, The temporal Artery must be felt, this artery you must feel in diseases of the brain —

Thus Gentlemen have I related the knowledge I have acquired of the Pulse during my Reading and Practice, they are the experience of my life, they dictate when bleeding is necessary & in what quantity Always feel the pulse before you prescribe any of the following remedies Vomits, Purges, Bloodletting, the Hot & Cold Baths, Sediluvium also before the use of Stimulating Medicines, As Bark & Wine, stimulating and nourishing diet & drinks, as they all change the Pulse very much — The frequency of the Pulse tho' of little consequence comparatively with the force & other characters of it, has been much relied on by the Physicians of Europe especially of G<sup>t</sup> Britain, They use for the purpose of acquiring a knowledge of its frequency, moment & minute watch — But this is ridiculous and I hope will never be brought into American Practice, A Spanish physician by the name of Solano has made many many observations on the Pulse, from some —



Hydrophyllum bipinnatifidum the only  
one -

of which he asserts that 100 is the greatest number of strokes the artery can beat consistently with the recovery of the Patient, 200 in Hydrocephalus is quite common but whether these ever recover I know not The observations of Cullen are opposed to those of Dr. Solano, he says Dr. S. observations are useless

Plato we are told has inscribed over the door of the school where he taught his Pupils, "Let no one enter who does not understand Geometry" In like manner <sup>where</sup> I to dedicate a temple to medicine, I would inscribe over the doors of every apartment Let no one enter who does not understand the Pulse

## Of the remote Causes of Disease

Diseases have been divided into Idiopathic & Sympathetic, this is not however a good division for disease is to be cured in the same manner whether Sympathetic or Idiopathic, Hydrocephalus Internus is thought to be produced by worms in some instances, here the worms in the intestines constitute the original disease, the Hydroceph, is the Sympathetic, this Sympathetic Hydroceph is to be cured however in the same way as Hydroceph from a Blow on the head, Diseases have also been divided into Contiguous and non-contiguous, into Endemic & Epidemic Sporadic, Vernal Autumnal &c. The remote predisposing & exciting causes of disease act in producing it



Aspects of Chomsky

Chomsky's Generalization

drawings are drawn as they affect  
the different parts -

Aspects

Q -

movement

ack -

movement

an aspect

1st

hot under lamp  
of Polce

sometimes separately at other times two or all are combined, we  
come now to enquire into the numerous causes which lay the founda-  
tion of disease, It has been aptly said as soon as a Child comes into the  
world "it inhales the lurking principles of death," The remote causes  
predisposing children to disease <sup>and exciting</sup> are the following, 1<sup>st</sup> The ignorance  
of the midwife with respect to delivery. 2<sup>d</sup> Washing the Child in Spirits  
wine harsh soap &c; 3<sup>d</sup> the use of Spirits internally & speed diet &c; 4<sup>th</sup>  
Sucking bad milk &c; 5<sup>th</sup> Caps swaddling cloths &c; 6<sup>th</sup> The manner of  
Education, confinement in Close schools &c; 7<sup>th</sup> the amusements of Chil-  
dren subjecting them to falls Burns Bruises &c;

The Atmosphere produces diseases by its sensible and in-  
sensible <sup>and extraneous</sup> qualities, The former are Heat cold moisture dryness densi-  
ty & variety, Some of the latter are marsh & human effluvia, and  
from these originate all febrile diseases

Of Heat, This is an universal stimulant, when in moderate as  
when at 75 it is friendly to health, but when above this produces de-  
bility from action, when in excess its affects are shown. 1<sup>st</sup> in the arte-  
rial system, by producing Fever &c; 2<sup>d</sup> when combined with the  
rays of the sun it affects the Brain producing what has been called  
insolation, also sleep stupidity and death, 3<sup>d</sup> on the nervous system  
disposing it in a peculiar manner to be affected by stimuli of every  
kind, producing syncope convulsions & death



Hot exceeds 96

Warm - from 96 to 75-75

Temp - from 75 to 32-32

Cold below 32 -  
Below 32

min 02-65

Hot - more  
heat more

"Lis Pratt Wilson says that it produced false vision  
false vision

and dry - by an inability to work

Cold is worse in sun  
the effects being more  
acute

1<sup>st</sup> On the muscular fibres, producing, 1<sup>st</sup> preternatural Activity, 2<sup>d</sup> Indis-  
position to voluntary motion, 3<sup>d</sup> torpor and languor, also producing  
irritability &c. 5<sup>th</sup> on the skin producing itching pimples & a brown  
colour, when moderate produces moisture perspiration & sweat;

But when in excess preternatural dryness &c. 6<sup>th</sup> on the Stomach increas-  
ing the appetite, its secondary effects are a diminution of appetite &c.  
7<sup>th</sup> Increases the venereal appetite, 8<sup>th</sup> it induces a tendency to  
putrefaction in the blood, 9<sup>th</sup> It gives the humours in the body a cen-  
trifugal determination, as in Psuho Glandular swellings &c. 10<sup>th</sup>  
it increases the excretion and secretion of bile, <sup>and more acrid</sup> which corrects the  
tendency to putrefaction in the Blood <sup>and more acrid</sup> mentioned above, 11<sup>th</sup>  
it favours the production of the menses, 12<sup>th</sup> it effects the eye sight  
producing Opuscula Serena Ophthalmica &c. 13<sup>th</sup> it weakens some of  
the operations of the mind. by producing debility it blunts renders  
dull & weakens the operations of the mind, but strengthens the  
imagination, heat effects the mind first with sprightliness  
afterwards insensibility, heat weakens the sense of taste  
it effects hearing, In the bowels it disposes to Cholera & dysentery,

The urine never indicates scarcely any change at the Crisis of  
fevers in the Lee Indies, 14<sup>th</sup> it lessens the density of solids, 15 it is less  
finely, colder than to young people, hence the practice amongst the  
ancients of changing a cold for a warm climate when they become



fairer people are the less blue

let him

die.

Loss of taste & color

Acme, or the world in  
universe

here, as to suffering by Prof. - the  
in life

old, By this means they prolong their lives 8, or 12 years

The Relative effects of Heat, When the system has been exposed to cold, it is acted then upon more forcibly by heat, Warm winters are followed by unhealthy springs, hence the propriety of the old saying "that a green Christmas makes a fat grave yard" Weather becoming temperate after being very warm, produces diseases by checking perspiration, Autumns preceded by very warm summers are often attended with bilious fevers. Inflammatory fevers seldom fail to follow heat when preceded by cold, the body suffers less by passing from the extremes of heat to cold than from cold to heat, heat when long applied produces insensibility to cold as well as to itself. The fall of 1793 was preceded by a warm dry summer, No climate necessarily unhealthy, but they are made so by the intemperance of the inhabitants, for it is ascertained that dress diet drinks the passions &c have a great influence over the bodies, Uniform dry weather seldom induces disease, only when succeeded or preceded by moisture, thus diseases are produced in one season and generated in another, Upon the whole I conclude that wet seasons are generally healthy, & that most diseases are induced by the transition from cold to heat & vice versa

Of Cold. This has been erroneously supposed to act as a stimulant upon the system, Its effects are negative, It acts only by the abstraction of heat, That it is a sedative I infer 1<sup>st</sup> from the general debility it produces, 2<sup>d</sup> from the slowness of the pulse & weariness



the body less porous  
has less heat to cold  
than warm bodies

winds tend to make the air  
more useful —

1<sup>st</sup> for exposure to cold

2<sup>nd</sup>

the heat is greatest when  
combined with moisture  
it acts in two ways

1

2

habit accustoms the body to  
of it heat

The effects of heat is felt more  
by old people and children

3<sup>d</sup> From the operations of it being similar to those of other debilitating causes such as bleeding, Lurging &c. Is the pulse slow in Plurisy Y. Fever &c. so it is from depression, It is raised by bf! so it is by an abstraction of excess of stimuli, It is raised by emetics? so it is by the abstraction of the excess of stimuli, Cold acts by inducing direct debility or debility from abstraction, heat by inducing direct debility or debility from action, Upon the application of Cold part of the heat is abstracted, Hence the apparent tonic power of Cold, when our bodies have been debilitated by heat.

The Effects of Cold <sup>is a cold</sup> 1<sup>st</sup> Upon the arterial system by inducing debility or increasing excitability disposes the system to all kinds of diseases 2<sup>d</sup> Upon the nervous producing a dullness of sensation, 3<sup>d</sup> Upon the muscular producing languor debility &c. 4<sup>th</sup> it invigorates the appetite, Hence the Germans are not - mious for their warm stables that their horses may eat the less - 5<sup>th</sup> it weakens the Venereal appetite 6<sup>th</sup> it increases considerably the discharge of Urine, 7<sup>th</sup> It is unfavourable to size 8<sup>th</sup> it operates with other causes in producing Gout 9<sup>th</sup> It disposes old animal sores to bleed a fresh 10<sup>th</sup> it is unfavourable to wife - son 11<sup>th</sup> it in a certain degree produces paleness of the skin in a greater redness In a still greater a purple or dark colour



The Camp, from the western  
sheet -

The traces of a great Land.  
hears to

destined

Constitution

Chambers

12<sup>th</sup> It acts powerfully in sleep, hence most diseases attack us at that time  
13<sup>th</sup> It acts more powerfully upon Old than upon young people, hence we  
hear of their being found dead with their children by their sides a-  
live, Case of a woman who was found dead & her child alive at her  
breast - weather uniformly cold is healthy, In Canada diseases  
of all kinds are locked up & they are only let down when heat succeeds  
or preceeds cold, Heat succeeding cold produces diseases, The spring  
of Russia produces fevers of a peculiar kind & our falls also, &  
thus the diseases of Cold climates are generated in one season and  
produced in another & vice versa, Heat does not produce cold  
after the long application of Cold because the vessels become torpid  
and are not able to react, Cold produces diseases in Northern  
climates when warm dresses and houses are not used, the sudden  
transition from heat to cold does not necessarily produce  
disease or vice versa - more care and attention in accommodating  
ourselves to the weather by dress diet drinks &c would prevent  
disease, Middle latitudes are not necessarily unhealthy tho'  
they require more care and attention to bed cloths & dress the  
Chinese change their dress, 2, or 3 times a day, in order to accom-  
modate themselves to the weather, Cold feet induces Catarrh  
9/10 of all diseases of the system are received into it by the mouth  
or feet by their avenues



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Cold acts more powerfully on the system in the sleeping than in the waking State hence 9/10 of our diseases are taken in in the night, Cold acts more powerfully when the stomach is empty, move powerfully on drunkards than on sober people, because the first are very much debilitated when not under the effects of some stimulus, Cold as I have said is the preparatory or predisposing cause of all diseases, more suffer from it than any other cause in nature, not only man but animals In short there is not a greater enemy to the health & life of man than cold, The spring & autumn between the degrees of 35 & 50 are the most healthy, Heat & Cold acts differently in different months

The effects of Wind, in producing diseases, winds are hot cold dry and moist, They are dry from the West and moist from the East, the body is immersed within them, sudden changes more certainly affect the body when accompanied with high winds, They produce certain changes in the mind, as the Torocco & Semicel winds, They act more powerfully upon invalids than upon healthy people, not only winds but their absence produce disease

The Effect of the Rarity & Density of the Atmosphere  
sudden changes from rarity to density & vice versa is very prejudicial, air highly rarified produces numerous diseases, great muscular weakness, difficulty of breathing quickness of pulse, profuse sweats, sickness of stomach, sleepiness, an aversion to



*[Faint, illegible handwriting throughout the page, likely bleed-through from the reverse side.]*

to create spirits & a great pain according to Mons Lavoisier, these effects are attributed to a more rapid combustion of azote, or a deficiency of Oxygen, Baron Humbolt who ascended the highest mountain said it produced a Hemorrhage from the nose eyes mouth & by his eudiometer the Oxygen descended to 18 parts in the 100. Air too dense is very hurtful to Asthmatical or consumptive Patients.

Impregnations of air We come now to consider the impurity of the air as the remote cause of disease.

1<sup>st</sup> Marsh Effluvia, or as Dr. Mitchell has called them Coine Miasmatic Exhalations, For the production of these two things are necessary viz heat and moisture, The Thermometer should stand at 80°. When the ground is covered with water no exhalations can take place, In like manner when the heat & draught is so great as to dry the Earth no exhalations can take place, But when there is not a sufficient quantity of rain or heat either to overflow or dry up the surface of the ground then the exhalations are produced, The summer should be moderately moist to produce miasmata. Heavy rains have sometimes produced miasmata, by washing off the green covering that is sometimes found upon stagnant waters & which prevented the Sun from acting upon them.



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

without which the miasmata could not be formed, These effluvia arise partly from animal & vegetable, but more generally from the latter. The following vegetable matters produce these marsh effluvia, viz Putrid Cabbage Potatoes Turnips, Peppermint Onions, aniseed Caraway seed confined in the hold of a ship, Coffee cotton, hemp Flax straw Old books, old paper money & the timbers of an Old house, Log houses the second year after they have been built, in consequence of the Putrefaction of the bark, green wood confined in Cellars, green timbers of a Ship also air stagnating in the hold of a ship & cellars & stagnated waters when agitated produce miasmata. Fevers are not so often produced by animal as vegetable effluvia, there are however a few which are produced by the former —

2<sup>d</sup> Human Effluvia or Idio-miasmatic exhalations of Dr. Mitchell, these are produced from want of cleanliness, dead Bodies raw hides &c. Miasmata acts first upon the stomach 2<sup>d</sup> Upon the intestines, producing Cholera dysentery &c. 3<sup>d</sup> upon the liver increasing the secretion of Bile, imparting to it acridity and bilacrimony 4<sup>th</sup> upon the blood vessels producing yellow fever, Intermittant and remittant Feil Typhus or low Chronic fever & Febricula or inward fever Hemorrhagis &c. on the brain Kidneys & spleen more particularly this last producing an Inflammation or Induration in it —





or induration in it called Ague Cake, 6<sup>th</sup> Upon the nervous system  
7<sup>th</sup> upon the nervous system producing convulsion &c 8<sup>th</sup> on the Lym-  
phatic system producing glandular swellings & 9<sup>th</sup> on the Eyes  
producing Optalmia &c 10<sup>th</sup> upon the skin producing Carbu-  
cles eruptions &c The human effluvia are of two kinds from excre-  
ted and secreted matter, Miasmata persons long accustomed to these  
miasmata are but little affected by them, hence the natives of  
sickly Countries suffer but little and perhaps not at all from the  
action of the same miasmata w<sup>ch</sup> in new comers produce formid-  
able diseases and death, Miasmata frequently does little more  
than give a predisposition to disease in one summer & in the  
next summer acting on this predisposition diseases are indu-  
ced, The diseases produced by marsh miasmata are not conta-  
gious, they are incapable of generating themselves, these mi-  
asmata has been carried 9 miles by the wind, strange as it may  
appear it is nevertheless a fact that the existence of these miasma-  
ta have been called in question because the Cudiometer does  
not discover that air impregnated with this is less pure than  
air generally is; as well might we deny the existence of  
a spirit because we do not see, it may exist in the body 20  
or 30 days without producing disease sometimes even 6 months  
Effluvia are more injurious to health in the morning—



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Evening than in the middle of the day, They are a source always of disease & are assisted by the following circumstances, Uncleanliness, confinement in large crowds, Low vegetable diet, scanty & putrid animal diet, mixing of strangers together, great prostration and grief of mind; all these predispose to disease, Cold weather is favorable to the spreading of contagious diseases, in consequence of the houses being shut up very close in order to keep the cold out, wollen and other clothes spread & retain contagion, wood also, Walls if white washed will not retain the effluvia of a Typhus Fever, Effluvia acts more powerfully upon the system when in a debilitated state, Pregnant women often escape the yellow fever in consequence of the stimulus of distention from pregnancy also persons affected running sores escape it, Persons are capable of affecting themselves with miasmata, Persons highly charged with miasmata may affect others without being affected themselves

Human Effluvia, The jail fever & plague & in some instances the fever is produced by the Idio Miasmata exhalations dysentery also not unfrequently proceeds from it, also influenza & Catarrh, It is different to tell what is in the air which constitutes an Inflammatory constitution of the atmosphere, But certain I am that such an Inflammatory constitution does exist often





I once imagined that it depended on the air being Super oxygenated,  
but late experiments of the Chymist have proved that the portion of the  
oxygen in the air is the same when the inflammatory constitution  
prevails as at other times, Human Effluvia affect first The blood vessels  
2<sup>d</sup> The brain with delirium 3<sup>d</sup> The Glands, 4<sup>th</sup> Produces dysentery  
5<sup>th</sup> Intermittent & malignant fevers, 6<sup>th</sup> Scoury & catarrh & lastly  
influenza, human Effluvia are often combined with marsh miasma-  
ta in producing bilious fevers, These are seldom conveyed more than  
10 or 12 feet from the body, No climate or Country necessarily  
unhealthy for fevers depending upon the human & marsh mias-  
mata are owing entirely to the carelessness of man, were we to  
take the necessary precautions to drain our meadows of the im-  
pure stagnant waters to remove all putrifying matter from around  
us & keep our persons &c clean these mortal distempers would cease  
to affect the human race, They are like the vermin sent us as a re-  
ward for our laziness and folly, The Jail fever is rare in the U  
States because there is not so much poverty & filth among our citizens  
for these are the causes which give rise to this fever in other places—

The Jail fever differs from the bilious or yellow fever in the fol-  
lowing particulars, 1<sup>st</sup> it comes on in cold weather & is not affect  
ed by rain or frost 2<sup>d</sup> It most frequently attacks the weak & in-  
firm, 3<sup>d</sup> The pulse is typhoid, the blood vessels being —





affected with but feeble degree of action, 1<sup>st</sup> It continues for 20 or 30 days  
2<sup>nd</sup> It is propagated in a different manner by the excretion & perspi-  
ration, there are two species of contagion as I shall say hereafter, the  
one from a secreted & the other from an excreted matter, from  
all the excretions but especially the perspirable matter the Idio-  
miasmata proceed - the yellow or bilious fever is distinguished  
by the following particulars, 1<sup>st</sup> By its attacking in warm weath-  
er 2<sup>nd</sup> By coming on suddenly, 3<sup>rd</sup> By attacking principally the  
young and robust 4<sup>th</sup> By remissions and intermissions, 5<sup>th</sup> By the  
increased secretion of bile 6<sup>th</sup> as its being of a shorter duration as 5  
- 6 or 7 days, but it now and then runs on to a chronic state from  
20 to 25 days 7<sup>th</sup> by its being destroyed by cold & heavy rains -  
the human or Idiomiasmatic exhalations and the marsh or  
Coine miasmatic exhalations affects the blood vessels in all the  
seven forms of fever, viz The Bilious, mild bilious, remitting,  
intermitting, Typhus, Typhoid & Febricula

3<sup>rd</sup> Source of disease, Phlogiston or air rendered un-  
pure by respiration & persons affected with Phthisis are greatly  
oppressed by this disease, 1<sup>st</sup> Air is unwholesome when mixed with  
fumes of Sulphur or Charcoal, 2<sup>nd</sup> Air of certain manufactories  
as Lead, Arsenic & when they are volatilized, 4<sup>th</sup> after Earth-  
quakes the air has been observed to be very disagreeable, especially after -



*[The page contains extremely faint, illegible handwriting, likely bleed-through from the reverse side. The text is arranged in approximately 20 horizontal lines.]*

one that happened in Jamaica on the 17<sup>th</sup> of June 1692, 5<sup>th</sup> the  
Torco or Samoël winds, 6<sup>th</sup> winds that have passed over a hot sandy  
country, 7<sup>th</sup> the air of certain mines, If birds fly over the Lead mines  
of Scotland, they are immediately killed on the days of work but  
on a Sunday when the labourers are at work they may fly over  
with impunity. Hence we may learn an important lesson  
that a remote cause can seldom be able to produce a disease  
without an exciting cause & in the Yellow-fever, I have never  
seen a case in which I could not trace the disease to some cause  
or other which excited it into action, after having thus treated  
of the impregnations of the air & their influence over health we  
will proceed to mention the effects of

*Situation over health*, New Countries are gener-  
ally healthy untill the trees which exclude the action of the  
sun are partially removed, From the time of clearing untill  
cultivation takes place it is sickly, The wood choppers in the ce-  
dar swamps of Delaware & Carolina enjoy good health while  
the trees are standing, but after they are cut down & begin to pu-  
trify by the solar influence, health abandons the labourers.  
Towns are more sickly than the Country, The atmosphere, im-  
pure exhalations from innumerable sources & the increas-  
ed heat together by the vegetables being forced by manure





Thus justifying sooner are the causes of Cities being more unhealthy, Country people are more predisposed to Dysentery from their rapid vegetable diet, Bilious fevers, Typhus mitor Consumption &c are more frequently the products vitiated City air than of Country. A collision of air is unhealthy as the air upon the sea shore.

It has been computed that 3 or 4 die in towns for one in the Country. Sandy soils, are unhealthy, Vicinity to towns, or marshy grounds one great source of disease, Vicinity to deserts & ponds these last may be remedied by having trees planted around them, a Mountainous more healthy than a Low situation, but there is one exception to this, viz When the miasma arises from the bottom, and neighbourhood, Other local circumstances affects the healthiness of the ~~system~~ situation, viz residence in Cellars more unhealthy than rooms above ground in Hospitals. Houses situated so as not to receive the action of the sun on every part, are not so healthy as those build on a contrary way. Dwelling Houses often a source of disease from the raw materials stone when recently taken from the ground of which it is made, This is prevented by previously soaking the timber in water, by which means the sap is discharged also by being built with stone well seasoned, from vapours from new plaster and paint, Hence the wealthy romans never occupy



*[The text on this page is extremely faint and illegible, appearing as a series of light grey smudges and ghosting of letters across the page.]*

a house for a year after it was built, A house is rendered unhealthy from age, for the wood when old exhales a vapour which produces intermittents, also from being too much confined by trees or being too hot or too cold - from the water used in families are sometimes rendered unhealthy, by moisture of cellars, by small smoky rooms, want of cleanliness &c.

I knew too cases of malignant fevers which proved fatal near Zachery's court in this City & none of the neighbours affected with it secondly I also knew 9 heads of families die of this disease in Arch street when none of the neighbours were in the least affected, These probable originated from something impure in the cellars, or from some other local cause, 3<sup>d</sup> & lastly a fact more proper to our subject related by Van Swieten, viz that the whole of the students together with the Professor of a certain University were diseased when none of the neighbours were affected, This probable arose from some exhalations from privies & cellars or some other local cause.

Change of Situation over health, 1<sup>st</sup> Persons changing a cold for a warm climate are frequently afflicted with fevers, 2<sup>d</sup> persons leaving a sickly neighbour hood & coming to a City are afflicted in the same manner, The miasmata being in this case previously received into the system.





are excited into action, in consequence of the many exciting causes in the City  
the system thereby becomes diseased, 3<sup>d</sup> Old people leaving a cold &  
entering a warm climate often become more healthy whilst the  
same change of climate in young people produce inflammatory  
complaints, 4<sup>th</sup> Removals from marshy to airy & dry situati-  
ons often contribute to health, except in old people, who often suf-  
fer by this change, since it deprives them of a customary stimulus  
by the marsh miasmata, which on a former occasion were said  
to be the support in part of old age, but the destruction of youth  
& the middle aged, 5<sup>th</sup> Those who have made long sea voyages are  
frequently affected by Catarrh, on a near approach to land in con-  
sequence of a mixture of land & sea airs together (case of a sea cap-  
tain with whom Dr. Rush crossed the Atlantic) 6<sup>th</sup> I have been at  
much trouble in trying to find out whether Thunder & lightning  
independent of the change of air had any effect upon the system  
in producing disease, but I have not been able to collect any thing  
certain on this subject, I knew a Lady who could tell the approach  
of a thunder storm by a giddiness & headache which she al-  
ways experienced some time before and continued untill the  
storm was over, some persons appear to be born with the fear of  
thunder, A Lady in this City some years ago, in consequence of  
her dread of thunder would during the continuance of a Thunder



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storm shut herself up in a dark room & drink an immense quantity of Spirits without being intoxicated in the least at other times she did not discover the least attachment for them, Excitement and Excitability were either so suffocated that they could not act or were suspended in this case —

Leeches, appears to be sensible of the change of weather by their motions, Mr. Cooper informed me that he could always foretell the approach of thunder by certain motions made by the leeches, which he kept in his house 7<sup>th</sup> Sound appears to affect some persons, A Lady in this City has always sweats, chills, tremblings, & the appearances of great terror on hearing the noise of a carriage, Deafness has been induced in two cases to my knowledge in consequence of firing of cannon and even death, Birds have dropped dead from the firing of a cannon upon the deck of a Ship, We will now consider the effects of the heavenly bodies upon health —

1<sup>st</sup> Of THE SUN We have already considered in what manner the heat of this body by warming the air operates on the system We will now consider its light absence &c, An excess of Solar light in cold countries the reflection of the sun upon the snow proves very hurtful to the eyes, sometimes produces Blindness & Inflammation, while its absence produces temporary Blindness from a want of Stimuli —





both which are called *Nyctalopia* whether it depends upon an abundance or deficiency of light, Even the momentary absence of the Sun has produced alarming symptoms in the yellow. If most diseases attack at night and death most frequently at that time it has been ascertained that  $\frac{3}{4}$  of mankind die at night may this not be owing to the absence of the Sun —

2.<sup>d</sup> of the MOON, The influence of the Moon is felt by all animated nature, even the tides are owing to its influence vegetation is measurable under it, Death occurs more frequently at the full and change of the moon than at any other time of it, The paroxysms of many diseases seem to be influenced by the moon, Dr. Morely relates the case of a British officer who was regularly attacked with homoptysis, I have seen it in two cases, about the full or change of the moon & at no other time, I know a person affected with the gout in this place always to have their inflammation paroxysm on the full or change of the Moon, The moon affects the nervous system also madmen, hence this term Lunacy, It affects the tranquility of the mind hence a Lady observed her husband to be more petulant on the full of the moon, Epilepsies & Asthmata appear to be under the influence of the moon — Parturition appears to be hastened by the full Moon —





Worms are more troublesome in the bowels of Children at the full & change than at any other time Suicide appears to take place more generally about the full of the moon than at any other time, Hypochondriac & Epileptic patients appear to be very much influenced by the full & change of the Moon, Dr Darwin has remarked that Apoplexies & Palsies are more frequent at the Equinoxes, Dr Haller speaks of a person who felt the calculi in the bladder more sensible at the change of the moon than at any other time, Chronic diseases yield less to the influence of the moon than acute, perhaps from the operation of the medicine keeping up the excitement, Eclipses of the sun and moon have great influence over the system, during the Eclipse of the Sun on the 16<sup>th</sup> of June 1806 the Lunatics in the Hospital were remarkably silent for three hours, Beta died at the instant of the Eclipse of the Sun, a more remarkable fact is the following, 14<sup>th</sup> British soldiers were attacked the moment of an Eclipse with Intermittents if the Eclipse of the 16<sup>th</sup> of June had appeared in the autumn, when persons were predisposed to disease, it is highly probable that diseases would have immediately have been produced, The diurnal rotation of the Earth appears to have great influence in regulating diseases and probably induce them, The pulse varies with the different changes occasioned by the Earth's revolution, for instance it is slow in the morning quicker at noon & slower again at



Question. how do you divide Contagious diseases  
answer. Into Epidemic. Endemic Sporadic & Inter current

night, &c. Dr Darwin has happily called the Evening the Autumn  
of the day. It is important to keep these changes in mind, since they  
will be of great Practical use.

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Of Contagious Diseases, These were formerly  
thought to be very numerous but they are now known to be much  
more limited. They are divided into Epidemic, Endemic, Sporadic  
& Intercurrent. Contagious diseases are received into the system, by  
means of the lungs, Saliva, Nerves & skin. They are sometimes specif-  
ic contagious, from particular parts of the system being affected  
- only as the small Pox, Chicken pox Whooping cough & measles &c.  
The Venereal, Flea Ring worms & diseases of the skin differ from  
the small pox & in being communicated only by contract, also in  
their originating from a fixed and the small pox from a volatile  
matter. Specific contagious diseases, act without an exciting cause  
whilst the yellow fever & such like diseases which I only consid-  
er as epidemics, scarcely ever take place without an exciting  
cause. Endemic diseases are such as affect many people together  
in the same place, or Country & originate from some local cause.  
Notwithstanding what has been said to the contrary I be-  
-lieve the Endemic yellow fever to be an / of the United States  
as well as of the West Indies, Sporadic diseases are such



My dear Sir,  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the  
subject of the proposed amendment to the Constitution of the State, and in reply to inform you that the  
same has been forwarded to the proper authorities for their consideration. I am, Sir, very  
truly, your obedient servant,  
J. M. Smith

affect a few only at the same time & place —

Intercurrent diseases are such as affect a few persons here & there without regard to place or time, —

Inculcated from the orders of Epidemics all the diseases produced by Idio miasmata exhalations, the Jail Fever never spreads as an Epidemic, Epidemic diseases are such as attack sometimes in scouting parties, but more generally with great pomp & violence. They attack such an immense number of people at the same place & time as if they were going to destroy the human race, but they can be prevented repelled & vanquished by the power of medicine. Epidemic diseases arise altogether & invariable from the insensible & foreign matters in the atmosphere produced by Coeno miasmatic miasmata exhalations & are small Pox, Influenza Cynanche &c. The Cynanche maligna Scarlatina & Influenza may be properly called diseases of the atmosphere, I will now deliver a few laws to which Epidemics are subjected —

1<sup>st</sup> They are influenced by the sensible qualities of the air, the influenza exempted, The small pox for instance is more violent and the measles & the Scarlatina Anginosa still more so in the summer than in any other season —

2<sup>d</sup> They are influenced by Provisions & drinks of the season while fruits, for instance, are used, the disease is thrown upon the Intestine





3<sup>d</sup> No two Epidemics produced ~~produced~~ by different causes & of unequal force can affect the system at the same time, I would as soon believe a horse could trot & pace at the same time.

4<sup>th</sup> When 2, 3 or 4 Epidemics appear at the same time & place they all blend their symptoms together. One of them predominates over the rest & appears to make them pay homage to it, by wearing its livery for there appears to be a man with in this disease, therefore Gentlemen take care in all your prescriptions to have an eye to the reigning Epidemic, Hence also we see the reason why Broken legs or any other external cause produce malignant fevers, when the system is previously disposed to it, A Young gentleman left this City in time of the yellow fever to avoid it and on his way to Germantown was thrown from his horse & had his leg broken. He was very soon seized with a black vomit & died in 5 days.

5<sup>th</sup> The more powerfull & reigning Epidemics <sup>do</sup> not only exact homage from the weaker but chase them away, D<sup>r</sup> Sydenham tells us that the plague in London in 1665 drove away all other diseases from the City.

6<sup>th</sup> the tyranny of great epidemics is lessened before their departure, Hence the small pox drove away the Plague from Constantinople, & the measles chased away the small pox from this City. The first appearance of an Epidemic may be compared



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to a Savage that attacks & destroys Men women & Children, but when  
retiring to a civilized compass of men who spare the blood of the inno-  
cent, It is in this stage only that other diseases can take place  
1<sup>st</sup> They appear in a variety of forms & characters, 1<sup>st</sup> as in the ma-  
lignant bilious, remitting inflammatory intermitting fevers &c.  
and in three different forms of small pox, viz that with & without  
pustules & the confluent, 2<sup>d</sup> They appear in different forms in dif-  
ferent years & with different prognos's under different circum-  
stances, 3<sup>d</sup> The same causes sometimes produce diseases of dif-  
ferent forms & appearances, but still disease is an unit

8<sup>th</sup> Epidemics vary with respect to their violence in different  
seasons & persons & even in different days

9<sup>th</sup> Some epidemics require exciting causes, whilst others such  
as the small pox &c. do not

10<sup>th</sup> They come on sometimes with great force & violence &  
suddenly vanish in consequence of frosts & great rains wash-  
ing away the cause that produced them

11<sup>th</sup> They differ in different parts of the Country, the same Epi-  
demic appears in one place perhaps in the form of yellow fever  
in another of remitting fever or common bilious Autumnal  
fever, In a 3<sup>d</sup> part of the Country it will probable assume  
the shape of a bilious Cholera or Dysentery



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The same Epidemic sometimes affects different people of the same City from a difference of temperament, This in Persons of the Languineous system for instance it will appear a violent fever, In those of the alimentary temperament, it will fall with all its force upon the bowels &c

They are perpetually varying & consequently no uniform mode of treatment is to be pursued, their changes must be attentively watched & our remedies adapted accordingly, This compels a Physician to be a student of Medicine as long as he lives, the same remedies which will cure the same Epidemic one year will kill the next

12<sup>th</sup> They are often limited to small bounds,

13<sup>th</sup> They affect people of one nation or colour often, whilst others of a different color & strangers escape it, In 1793 the Frenchmen & negroes escaped the fever of this City

14<sup>th</sup> They sometimes attack persons of a different age particular Mous speaks of a Plague that carried off many Children only

15<sup>th</sup> They sometimes affect persons of a particular sex only, a Plague in Italy once carried off 6000 Men & scarcely a woman

16<sup>th</sup> They sometimes affect persons of a particular rank only In France 1757 the Dysentery attacked only the rich & the Plague in 1758 attacked none but the poor





17<sup>th</sup> They sometimes affect members of the same communities & families only —

18<sup>th</sup> They sometimes affect all nations, all colours, all ages, all sexes at the same time & place —

19<sup>th</sup> Sometimes they affect the human species only —

20<sup>th</sup> They sometimes affect the Human Species together with cats dogs sheep horses cows fish and all others of the brute creation

21<sup>st</sup> & Lastly it must be observed that different remedies must be used in the same Epidemic, in different seasons & under different circumstances —

Of the different Phenomena that have been known to precede & accompany Epidemics —

1<sup>st</sup> Hot, Cold, dry & wet, windy, weather with rain sometimes precede an Epidemic —

2<sup>d</sup> Weather perfectly calm, so much so that the leaves of trees were not seen to move. & which authors have called "Sine Aura"

Dr Wilson of Morris town relates the case of an Epidemic which was preceded by a long calm & smoky vapour, the white paints of bones changed to a yellow colour in the Y. S. of Boston

3<sup>d</sup> Diseases which precede Epidemics are more violent than at any other time, The diseases which also follow always partake of a more violent for or are more Chronic —



1st. The Commission of the Peace for the County of ...  
2nd. The Commission of the Peace for the County of ...  
3rd. The Commission of the Peace for the County of ...  
4th. The Commission of the Peace for the County of ...  
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16th. The Commission of the Peace for the County of ...  
17th. The Commission of the Peace for the County of ...  
18th. The Commission of the Peace for the County of ...  
19th. The Commission of the Peace for the County of ...  
20th. The Commission of the Peace for the County of ...

The Murines which have preceded & followed the Yellow Fever have constantly required more Copious V<sup>e</sup> and purging than Ordinary  
4<sup>th</sup> Cattle appear to be affected in a peculiar manner previous to the appearance of an Epidemic, Birds have been observed to be more scarce & even die in their cages during the continuance of an Epidemic, Insects are more previous to or during the time of Epidemics, but the House Fly is an exception to this, for at such times the mostly disappear—

5<sup>th</sup> Many trees emit a peculiar disagreeable smell, drop their leaves & some times die—

6<sup>th</sup> The Pulse is preternaturally slow or weak or frequent during the continuance of an Epidemic, at one season the Pulse was preternaturally frequent, there is languor sickness of stomach &c. Persons who were in good health became sickly in consequence of it, but sometimes it happens that others who were debilitated previous to an Epidemic have become quite healthy in consequence of it, the miasmata in these instances excited them up to the healthy point, Oyster & Fish live a much shorter time during an Epidemic, The clouds affected the Patients in the Y Fever at Charleston by obscuring the Sun, Whence these changes? 19 out of 20 diseases are derived from the Changes of the atmosphere  
If Epidemics are changed by so many circumstances—



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they should be observed with a Spy Glass & Microscope every day —  
 Some persons have supposed Epidemics to be a curse or a Judgment  
 upon them, Reason not only rejects but loathes such nonsense —  
 Let Old women & Children who assemble around a Titcher  
 give to hear the tales of Fairies & Hobgoblins believe this —

Thus Gentlemen I have delivered to you such facts as I have  
 acquired from observation & experience, during my life I think  
 it here proper to observe, that it is the duty of a Physician to be  
 students as long as they live —

Aliments & Drinks as productive of disease, This  
 is an important part of our Pathology, I have said before that  
 $\frac{2}{10}$  of all diseases are received into the system by the Mouth & feet

Aliments produce disease by their quantity and quality  
 and 1<sup>st</sup> of their Quantity, When great disease is produced by  
 an over distention of the Stomach & by affording too much nourish-  
 ment to the System, The effects of too much nourishment  
 will be in proportion to the exercise taken, Too much nourishment  
 disposes to all the diseases of Plethora as Apopley &c paving the  
 way for indigestion & Dyspepsia & lays the foundation for two  
 vile practices drinking & using tobacco —

The quantity of meat should be regulated by the quality, The use  
 of Aliment is not only to nourish the body, but also acts as a stimu-



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ant, A labourer can take much more food with impunity than the  
Idle & sedentary, The quantity of food necessary for a labourer is about  
8 lb but for a sedentary man from 4 to 6 is sufficient, Chardin  
tells us of a Persian who would eat 35 lb of water melon a day with  
out injury, Persons accustomed to a definite quantity become sick  
when increased or diminished, Lewis Cornaro limited himself to  
12  $\frac{1}{2}$  solid food & 13  $\frac{1}{2}$  of drink per day, By adding 2 lb he lost his  
health, The diseases which arise from an insufficiency of food  
affect chiefly children Slaves & monks, who thro' a false sense  
of religion deny themselves the necessary support of life. —  
Children at the Breast are often diseased from the Mother not  
affording a sufficient quantity of Milk, since they are unable to  
live upon any other kind of food, Diarrhea Dysentery &c. fol-  
low, stimulus of the desire of food & life causes the increase of  
strength, Slaves are often diseased in consequence of having  
small allowances & by being made to labour hard by cruel & un-  
thinking Masters, Hunger appears to increase the strength. —  
Hunger is said to have great effect upon the temper, hence it is said  
to break down stone walls &c. before it, It was in consequence  
& furiousness of temper, that was supposed to follow hunger  
that the Duke of Marlborough used to say that he preferred  
Scotch men when hungry Englishmen when full & Irish



Question does Lamine increase the excitability -  
Answers. Yes - and makes the breath very acid  
Question how many kinds of Aliments -  
Answers two. Animal & Vegetable

Wild meat is the better than tame  
~~It~~ it makes a person not so strong but more  
active - - -

a diet solely upon animal food produces many  
diseases as Lix. Leprosy. fetid sweat Scurvy &c.



then when drunk for immediate engagement —

Lamine increases the excitability of the system, excites pain in the stomach, renders the excretions and secretions acrid & hemorrhage from the stomach delirium & death closes the scene —

Dr Franklin used to relate the case of Benjamine Fay of this state who attempted to fast 40 days in imitation of our Saviour during this time the Dr visited him & found his breath so acrid that upon shaking hands with him it drew tears from his eyes

2<sup>d</sup> Of the Quality of Aliments, There are Animal & Vegetable, 1<sup>st</sup> of Animal Aliments which are the following Fish diet solely upon fish produces Lice Leprosy Itch Diarrhea & dysentery, food wholly animal produces foetid sweats Scurvy &c & the animal food of Carniverous animals this effect in a much greater degree than when it is from Herbivorous. —

A great degree of difference between the effect of wild & domestic animals, the former being much the most wholesome, The Indians who live almost entirely upon the wild are exempted from almost all the diseases to which we are subjected, They are not however so strong but more active than those who live upon domestic animals. — Animal food produces diseases when much exercised before killed, an Instance of this kind occurred some years ago, A farmer killed a Beef after hav



Question, What diseases does a diet on vegetables produce  
Answer. Many. Diarrhoea, Gout, dysentery dropsy,  
lessens the venereal appetite & size of the Body.

Question are some supposed to act specifically  
Answer Yes - Beans to flatulency, Potatoes to cutaneous  
diseases, Cherries to mental debility -

Question, does the preparation in cooking affect  
their digestibility — — —

Answer Yes

ing worked him very hard & sent it to market, The result was  
out of 15 who eat of it 14 died, Animal Food produces disease  
when putrid.

1<sup>st</sup> Of Vegetables. Aliments. Notwithstanding persons  
in warm climates live upon them yet in other climates they pro-  
duce disease wholly vegetable produces Diarrhea Dysentery Drop-  
sy, costiveness a disposition to gout, lessens the heat of the human  
body impairs the venereal appetite, lessens the size of the human  
body &c. Some are supposed to act specifically as ~~eggs~~ which pro-  
duce flatulency, hence the reason why Pythagoras forbade them  
at his school. Oats are said to produce cutaneous diseases, &  
Chenopodium when green are said to dispose to mental debility.  
Many other circumstances independent of the quality and quan-  
tity of food influence their effects upon the system.

1<sup>st</sup> Preparation of aliments in cooking materially affect their  
digestibility, oysters when over done have produced colic some-  
times death, Milk in its simple state disagrees with many  
stomachs, a supper of toasted cheese has produced heart burn  
and Apoplexy & however taken it always disposes to Costiveness.

2<sup>nd</sup> Food when taken into the stomach without being sufficient-  
ly masticated produce Dyspepsia &c.

3<sup>rd</sup> Long great intervals between meals disorganizes the stomach.



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*[Partial view of the adjacent page on the right, showing faint handwriting.]*

This should be avoided by carrying a little ginger bread or biscuit which should be eaten between meals.

4<sup>th</sup> Exercise or rest influence the food in the stomach the former rendering animal food harmless whilst a vegetable diet is more suitable to the latter. Some Philosophers of late have mentioned & ventured to foretell that vegetables will in time become the food for the human race.

5<sup>th</sup> Eating too much after fasting is a great source of disease in a convalescent state the most dangerous relapses are brought on by eating too much or taking a small quantity of animal food after having been restricted to a low vegetable diet — this is one of the greatest sources of unsuccessful practice, when families in Europe travel for health, they are sometimes attended by a Physician who regulates their diet chiefly &c & the benefit derived from such a custom is considerable.

6<sup>th</sup> The sudden change from vegetable to animal diet or vice versa is very injurious to health.

7<sup>th</sup> An improper mixture of aliments is likewise very prejudicial to health, see Inquiries Vol 1<sup>st</sup> / however it is best to advise patients labouring under chronic diseases to eat of one dish only at his meals.

8<sup>th</sup> Food taken into the stomach to hot or to cold produ-



Question. does food immediately produce disease as  
soon as it is taken into the stomach —  
Answer. No. it may remain weeks days Months

as an inflammation of that organ &c Mr. Reid died at New York  
in consequence of eating creams.

9<sup>th</sup> Novelty in articles of diet often produces diseases & that to  
when the new diet is taken in small quantities, water melons  
peaches &c are not received into the Stomach in the beginning  
of their season without producing some unpleasant symptoms &  
sometimes disease, It appears in this case that the stomach for-  
gots these old acquaintances, but upon recognizing them renews  
her cordiality, The stomach sometimes remembers her ene-  
mies & scarcely even becomes reconciled to them, Some years ago  
a single Boiled Chestnut produced a vomiting in me, owing  
to a great sickness experienced from them when I was very  
young

10<sup>th</sup> Food may remain a long time in the stomach before it  
shews it pernicious effects, I once knew a Lady to be ma-  
de not untill the 3 day after taking some toasted cheese  
into the Stomach, I gave her an emetic by which discharg-  
ing the offending matter soon relieved her, Dr. Haller says  
he has known food to remain in the stomach from 1 week to  
7 months previous to its producing disease, Hence Gent, the  
necessity of enquiring into our Patients food for days weeks  
and even months perhaps longer previous to the origin of disease.



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11<sup>th</sup> Diseases may be brought on by eating food cooked in improper vessels as Copper Lead &c. the first mouth full of such victuals takes away the appetite, Since the introduction of Silver & Iron, stomach complaints are very much diminished in number. Also by filth & extraneous bodies getting into the vessels used to convey food into the system, I once knew an instance of a whole family becoming sick in consequence of eating a Baron of milk in which a spider had fallen.

12<sup>th</sup> Animal food is sometimes rendered unhealthy from a peculiarity of diet on which the animal had subsisted on previous to its being killed for our food, Some families in Philadelphia were once diseased from eating a few Pheasants that had been brought from market, The Physicians universally attributed this complaint to the cause I have mentioned & these Birds were condemned to be improper & poisonous, The cause of this poison however was from the Patient eating a particular fruit called the Laurel berry which is the only fruit they can get in winter & is known to give a temporary poison to the flesh of these animals as well as to the deer & some few others, I once knew 60 Students at Princeton college to be affected with a Diarrhea from eating a Pylé made of (Poke berries (Pidgeons) which had chiefly subsisted on



Question what diseases, will to much increase  
produce *reflux: Gastrodynia Cholera*, and a disposition  
to *fever* - - - - -

13<sup>th</sup> Salt diet when well proportioned to the state of the system is not unwholesome, The reason that children living in the country are less affected with Cholera Infantum than those of the town is owing I believe to the salt diet used by the former whilst the Peculiar situation of the latter hinders them from any fresh food, It were to be wished that our farmers would live on fresh food in winter & on salt meat in the summer.

14<sup>th</sup> There is an Idiosyncrasy which renders aliments wholesome, or unwholesome to particular persons & this Idiosyncrasy is Hereditary.

Of Condiments as productive of disease, There are Salt Vinegar Mustard Sugar & spices.

1<sup>st</sup> Salt is not universal & useful an article of diet that when it could not be obtained ashes & alkalies were frequently known to be used as substitutes, Some nations as the Brazillians & our Indians have never seen salt but they use instead some alkaline substance.

2<sup>d</sup> Vinegar is both Unwholesome & proper in small quantities, but when taken in large quantities produce dyspepsia Gastrodynia Cholera a disposition to gout & a variety of distressing complaints, In 1770 it was said to take down the fat of the system & induce leanness, Some of our Ladies —



Mustard, the same as Vinegar

Question What diseases does Sugar produce  
answers Dyspepsia

that used it very profusely & injured their constitutions material-  
ly by it —

3<sup>d</sup>, Mustard, The same may be said of this as of vinegar, I  
once had a Gent. & Lady with a very obstinate Gastrodyspepsia un-  
der my care & happening to dine with them I observed that they  
used mustard and vinegar very profusely, I advised them to  
lessen the use of these two articles they did so and soon recover-  
ed, Patients often suffer from large quantities of these two  
articles or particular qualities of food Dr. Zimmerman in-  
forms us that Frederick the III King of Prussia fell a victim  
to his ungovernable appetite, He was an enormous gutton, would  
eat a day & would take between breakfast & dinner by way  
of a relish a large Ell pyc, He would never believe that he  
ate too much & when spoken too about it he would say that  
he ate only enough to keep soul & body together, He was re-  
markably fond of condiments & the same Dr. tells us that  
his kitchen resembled an Apothecaries shop more than an-  
y thing else —

4<sup>th</sup> Sugar notwithstanding it is the most gratefull &  
nourishing of all Condiments, when taken in moderate quan-  
-tities, yet when taken to an excess produces Dyspepsia &  
Hooney, or Molasses when taken in an excess produce disease



Spices, large quantities Continued -

Tea, when in large quantities, produces, Gout  
& Nervous Complaints - - - - -

Coffee, Vertigo -

5th Spirits when taken in small quantities assist digestion but when taken in large quantities have a contrary effect

We will now turn our attention to tea & Coffee of their effects, a revolution has <sup>been</sup> made in the customs manners &c. of every nation since the introduction of these articles -

Tea principally injures by being taken too strong, hence it is that women are more affected than their mistresses, Tea will sometimes bring on, and sometimes prevent sleep, if the system be below the sleeping point, then it stimulates & may induce sleep, but if the system be excited above the sleeping point it prevents sleep, Tea produces nervous complaints such as Hysteria &c. & when taken very strong & in large quantities, also Gout, hence the reason women are more affected than men with Gout, as I shall show you hereafter

Coffee is a gentle stimulous & will sometimes produce all the effects of ardent spirits, I knew a Physician in this City who always previous to his going out on a visit to his patients in the cold, drank a pint of hot coffee, It sometimes produces Vertigo & other diseases, in consequence of which, I always forbid its use in any one of them, Neither tea or Coffee is nourishing they only become so by the Sugar & milk taken along with them -



Question. how many different ways does  
water produce disease

answer. 1<sup>st</sup> by its sensible qualities 2<sup>d</sup> by its  
being mixed with unhealthy articles  
3<sup>d</sup> the quantity and time when it is taken

Of Drinks as productive of disease, These are Water  
Wine Beer Cider & Ardent Spirits. —

1<sup>st</sup> Of Water it is the most wholesome & pure of all drinks  
but it is sometimes like the rest the cause of disease, 1<sup>st</sup> By its sen-  
sible qualities, Cold water injures the tone of the Stomach, (that is  
when very cold) By its sedative effects, When the system is very  
much heated, violent spasms of the stomach arise from drink-  
ing very cold water, The teeth are peculiarly affected <sup>by</sup> water when  
extremely cold, Mr. Spencer a dentist in this City informed me  
that he drew 3 teeth in summer for one in winter, which may  
be ascribed to this cause, water moderately warmed or suffered  
to stand 1/2 an hour in the air never produces those dreadful  
Symptoms, which are sometimes its consequences when taken  
very cold, It also quenches thirst better than when it is very co-  
ld, because this last abstracting so much of the Heat of the Sto-  
mach, leaves the system debilitated in consequence of which  
the system reacts so powerfully that a fever is produced &  
water is again required to compose this fever, whereas water  
not so very cold produces no such effects, since the system  
has not to react & therefore no fever is produced —

2<sup>d</sup> By being mixed with <sup>un</sup>healthy particles, Water in Cities  
is generally unwholesome for the following reasons —



Wine Gout

1<sup>st</sup> The wells in necessaries which are dug 30 or 40 feet below the surface of the earth generally effect the pump & water at the distance of several feet from them. It was on this account that Dr Franklin proposed supplying the City with Schuylkill water. Ice in water, beer, punch & cider will produce spasms but not in Wine or Ardent spirits, I have known death to have been brought on by drinking Ice punch, water is most wholesome when running over rocks, sand, gravel, &c General Wayne was affected in 1792 by two large draughts of Ice punch —

3<sup>d</sup> By the quantity & time at which it is taken, Cold water when taken at improper times injures the system, The same may be said of it when taken in large quantities, Many people injure the system by taking large draughts of water early in the morning or late in the evening just going to bed, This practice comes on by intemperance & kept up by habit — It is however a pernicious one as drinking between meals. The Indians scarcely ever drink water untill evening — Large drinkers of water are generally great gluttons —

2<sup>d</sup> Wine has a tendency to produce gout in the extremities, Here I must observe that gout in the extremities is always produced by fermented or Spirituous Liquors, Gout may be induced in the stomach, without them —



Rice, Gout, Rheumatism

Ryden, Cholera Pictum Rheumatism Gout & Indigestion

but I never a case of gout in the extremities except in Persons who had been accustomed to these drinks, Wine produces Gout more readily in warm than in cold climates, It has a tendency to induce costiveness when taken after supper, It is more wholesome when taken with food than without.

3<sup>d</sup> Beer like wine when taken in large quantities disposes to Gout & sometimes to Rheumatism, It has been said to produce gravel if so it is in consequence of its acidity, Dr<sup>r</sup> Haller said that out of 100 patients that died of gravel not one upon examination had been found to use Beer.

4<sup>th</sup> Cyder may be drunk with impunity by Labouring persons, but it is productive of Gout & Rheumatism in the sedentary, I knew a Gentleman & Lady in whom the gout was always excited by it. The fruit from which it is obtained is often difficult of digestion & in some stomachs productive of the same disease, If a red hot Iron be plunged into cyder & suffered to cool, its tendency to produce Gout & Rheumatism is entirely destroyed, The Iron acts by obtaining the acid. —

5<sup>th</sup> Ardent Spirits as a drink and source of disease, See Med Inquiries Vol. It may be proper however to observe here, that their effects are produced experienced on the Nerves & Blood vessels, Lymphatics Brain &c and also upon the



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the hundredth is the fact that the

moral faculty,

Dress as inducing disease, Who would believe that the dress 1<sup>st</sup> used to cover our nakedness after our fall from the primordial innocence would be so used as in time to constitute a part of our destruction, The diseases from dress arise from the quantity quality fashion of our cloths —

1<sup>st</sup> Dress too heavy in warm weather predisposes to disease  
2<sup>d</sup> Fashion is often a source of disease from dressing too thin thick or tight, I knew a Lady who fainted immediately after she was dressed to go to a tea party from being laced too tight in her stay, I believe a great many instances of the Brain are brought on by tight cravats shirts collars &c. garters by preventing the free return of blood upwards cause large knees anacarcous legs &c. —

3<sup>d</sup> Quality of Clothing has a great influence over the system Woollen or Cotton clothing is best next to the skin 1<sup>st</sup> they keep up a gentle perspiration, 2<sup>d</sup> when wet they are not so disagreeable, so cold or so productive of disease, 3<sup>d</sup> they may be worn any length of time next the skin without producing vermin provided the other clothing is kept clean, after having considered the diseases of dresses let us next consider the dresses of diseases.  
1<sup>st</sup> Hair powder is a dress of disease, as it was first put upon the head in Poland to prevent the disease Plica Polonica



Toxins when put into the Blood vessels, immediately  
killed - - - - -

2<sup>d</sup> Patches in the cheek and face were introduced by some druggards to hide the pimples of these parts, 3<sup>d</sup>. Neck cloths, were first introduced by Henry to hide the deformity occasioned by the Scrofula, 4<sup>th</sup> Boots were first introduced by Charles to hide the deformity of his legs.

POISONS are of a relative nature, from the part they affect as the Vipers poisons when swallowed is innocent, some substances are poisonous for particular animals while they are food for others, or they are poisonous to an animal in one state of the system, while in another & to the same animals they are innocent, Poisons are such substances as when taken into the system produce disease or death, and that they act relatively, is proved by the following fact, The venom of a viper has been swallowed without having any effect, but when taken into the blood by self immediately kills, Poisons are not only so from their quantity, a small dose of opium is an agreeable stimulous, but if taken largely kills, Poisons are taken from either the animal, vegetable Kingdoms, mineral or Orical. It belongs however to Natural History to point out the different poisons, It is my province only to explain the manner in which they operate Poisons like miasmata act by producing local inflammation The bite of a Spider does not kill by its poisonous quality



Question, how do poisons act in producing death  
Answer. By destroying the part, to which they come in  
Contact. this destroys the ability in the system of dis-  
charging its various functions and thus death --

but by exciting morbid excitement inflammation &c and then bringing the rest of the system into sympathy with the affected part

2<sup>d</sup> In the Vegetable Kingdom, we have poisons, as *Nicotiana glauca*, *Hyoscyamus*, *Digitalis*, *Laura Cerasus*, *Datura stramonium*, *Monkshood*, *Dropwort*, *Buckwheat* some which is a poison to some animals, others are less dangerous as the *Cashew-nut* which acts only upon the skin — — — —

3<sup>d</sup> Mineral poisons are arsenic &c — — — —

4<sup>th</sup> Aerial, are aerial acid naphtha, camoriel & Lamoon winds and the different kinds of air fit for respiration — —

Poisons have been supposed to act by destroying a certain something called the living principal, but since we have denied the existence of such a principal, it becomes us to account for its operation in another way, we said that the functions of the system were kept up by certain stimuli acting thereon. In short life is a forced state, & consequently the way we account for the operations of poisons is, that they destroy the parts to which they are immediately employed & thereby destroy the ability in the system of discharging its various functions, They produce in parts whose motions are essential to life an inability to perform those motions & thus death — — — — They act on different parts & are fatal in proportion in proportion to the part affected.





When they act on the Brain & produce death, they are taken in by the  
mouth & destroy the excitement of the Brain; They produce this ef-  
fect in the same manner that a string tied round a Ball or a  
piece of wax placed around the string of a Violin, prevents the e-  
mission of sound from either of them, Poisons act specifically  
1<sup>st</sup> on the mind, 2<sup>d</sup> on the Brain 3<sup>d</sup> on the lymphatics, 4<sup>th</sup> on the  
Nerves, 5<sup>th</sup> on the muscular system, 6<sup>th</sup> on the sanguiferous sys-  
tem, 7<sup>th</sup> on the skin, 8<sup>th</sup> on the stomach & bowels, 9<sup>th</sup> on the lungs  
10<sup>th</sup> poisons act generally on the system as Opium. —

Chemistry affords us examples in support of our doctrine of  
poisons, Mercury put upon gold destroys all its properties  
of ductility, malleability &c. Zinc & copper are both within  
themselves insonorous, but upon mixture form a fine, brittle  
sonorous & elastic compound, Many other examples of like  
nature might be adduced from Chemistry, May not poisons  
therefore not act upon the blood by mixing with them & des-  
troying its vitality, Formerly we looked up for power to Mon-  
archs & Princes, but of late we have looked downwards & found  
it to reside in the people, since that time we have become wise  
& happy, But not so in medicine, we have all been looking  
inwards for some invisible principal of life, but the Theory  
I have taught, directs us to seek for it in some external <sup>ter</sup> quar-





Since that theory has been advanced, the phenomena of animal life seems all more plain & simple, We must now look outwards for the support of life & like the Indians with their Gods think we see them in the clouds & winds. —

There are some poisons which do not destroy immediately (these are generally from the vegetable Kingdom) but by a long and lingering illness exhausting the Patient, thrust him insensible as it were out of the world, This is the way to explain the action of those poisons used in the Southern States by the Slaves, to extinguish the flame of life in their Masters or Mistresses, The miasmata which produces Yellow Fever sometimes kills instantly but it never the less may & often does, bring on Chronic disease, There are frequent instances of persons who have been poisoned arriving again to perfect health, Even arsenic itself sometimes yields to the effect of the system to recover itself. —

Of Foreign Matters introduced into the system as productive of disease —

WORMS from their universal appearance in all animals I am led to believe, that they serve some use in the Human body and that when disease is produced by them, it is either by their being in to large quantities or by their getting in to some improper place, They are found in almost every part of the human





body, in the Liver Bladder & throat frontal & maxillary sinuses, Crania  
Gastric Canal, The different kinds of worms are the Lumbrici  
or round worm, The Tenia or tape worm Ascaridies the Ground wo-  
rm, These may be taken into the system either by aliment or may  
be generated in it, I am inclined to believe that only the Lumbrici  
serve any good purpose in the system & this may be by consum-  
ing the superfluity of aliment, The effects of worms are seen mo-  
re in the Fall than in any other season of the year, Children are  
more subject to them than adults, some nations are more sub-  
ject to them than others, The French Germans & Italians more  
so than any other nation, Worms produce diseases only by their  
quantity or by their being misplaced, They have no effect  
upon the blood vessels, hence you see I deny the existence of a  
worm fever, From what I have said Gentleman, you may sup-  
pose that I think there are few worm diseases, I would by no  
means inculcate such an Idea, I believe that there are few dis-  
eases of Children but what are more or less owing to worms or ac-  
companied with them, I seldom therefore advise medicines in  
Chronic cases of young people, without at the same time having  
an eye to worms —

Of Anomalous or extraneous bodies introduced into  
the system Stomach Lungs Nose skin &c as productive of disease



Powder Dr. Rush is speaking of this says an officer had  
powder in his skin 20 years and it then flashed as  
well as powder as had just been made -

I have known death to be induced by swallowing a Cherry Stone.

Copper taken into the stomach produces distress nausea &c. I knew a Lady who swallowed a water melon seed, which went the wrong way, a violent cough ensued, but ceased as soon as the seed was discharged which was much enlarged, Children frequently push grains of Coffee &c up the nose, the consequences of which are very bad since they often tend to bring on Polypus.

Pins often produce disease by being introduced into a part & not & not immediately extracted, I attended in consultation a Son of Mr. Morris, with a sore in the groin which was not benefited by any thing, untill a pin was drawn from it by Mr. Burke a Member of Congress & then it quickly healed, A Lady in this City had a great pain in her vagina for some time, however after a time she discharged a pin from that part & was soon brought to her usual state of health, Wounds from nails &c especially in tendinous parts often induce tetanus.

Shot, bullets & Powder frequently produce disease after having remained in the system a long time, I knew a young man who was affected with delirium every two or three ~~days~~ years which had been lodged in the bottom of his feet when young, Splinters are frequently the cause of disease, I attended an officer about the time of the american revolution, who had a pain in one of



"They were taken up by the Lactals -

his legs, in consultation with another Physician, we both agreed that he had the gout and treated it as such, Some days after this there came from the place of pain a splinter of about the  $\frac{1}{2}$  of an inch in length which had been thrust into his feet some years before. —

Paints Powder & Pomatum are frequently productive of disease such as head ache &c. —

Retained excretions are productive of many diseases —

Stools when retained for any length of time are very injurious. — Their effect however are different upon different persons, Many people go a long time without suffering any inconvenience from the retention of their feces, particularly Sailors, I know a sailor who went to Lisbon and back again without having a single passage during the whole time" Dr. Haller believes the great longevity of birds depends of their readiness to discharge their feces, There are many instances of persons going a week month & even more without a fecal discharge but in general it disposes to many diseases 1<sup>st</sup> Dyspepna & diseases of the stomach 2<sup>d</sup> The piles in consequence of the feces hardening the intestines, 3<sup>d</sup> Colic 4<sup>th</sup> Inflammation of the intestines by their irritation 5<sup>th</sup> Ruptures as Inguinal, Scrotal Umbilical 6<sup>th</sup> Diseases of the Brain, The most healthy time for the evacuation of the feces is once in 24 hours but this period may be exceeded for a short time & no disease produced.



In Summer Diarrhoea & Dysentery, and in Winter  
Catarrh -

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Inspiration when retained produces dryness & eruptions of the skin  
sneezing Cholic Diarrhoea &c

Urine long retained will produce gravel tenemus &c

Bile when absorbed produces costiveness jaundice inactivity  
dyscrasia or false infusion making every object to appear yellow  
obstruction or Schivrus of the Liver &c The causes of this obstruc-  
tion are brought on in three ways, 1<sup>st</sup> Spasm 2<sup>d</sup> Calculus or Gall  
stones 3<sup>d</sup> Viscidity as in the yellow fever, Semen when retained  
how does it produce disease? Answer it does not unless accom-  
panied with a preternatural strong venereal appetite, then it may  
produce Plethora distention & thereby Erypteria Melancholy  
by Madness & death accompanied with Priapism —

Menses when retained produce a majority of female complaints  
whether of the Chronic or acute kind, The suppression of the  
menses produces diseases of a highly inflammatory kind,  
which stand in need of the Lancet instead of the Pennyroyal  
tea or other stimulating medicines termed Emmenagogues —

Rest & Motion as productive of disease, Rest by sup-  
pressing perspiration is unfavorable to health, Hence the  
necessity of imposing rest on man, Labor after his apostacy  
to earn his bread by the sweat of his brow This was a bless-  
ing in disguise, women suffer less than men from a sedentary life



" and in other 6 months

Sleep & Wakefulness, Too much sleep produces debility from abstraction & disposes to fatness, indigestion & activity 8<sup>h</sup> 6 hours in the 24 are sufficient, Westy who lived to 60 seldom slept more than 4. in the 24 hours, Wakefulness is a relative term & depends upon stimuli both as to its quantity & quality. The stimuli of the passions will often prevent sleep without giving injury, I knew a card player who would sit up 2 or 3 days or nights without having any desire to sleep, Boerhaave once went 6 weeks without sleep, Haller tells us of a woman who passed 45 days without sleep, "The want of sleep is owing sometimes to the debilitating power of Grief Fear &c. They act by reducing the system below the sleeping point, But above all wakefulness is kept up or produced by fear. The state of wakefulness is exemplified by the anecdote of Gen<sup>l</sup> Washington & the Indian Corn-planter, In an answer to the Generals reply he has the following words, "Your words contained in the great paper you sent me were like the sun in the morning in a fever sick man, which makes him glad but does not cure the pain —"

We come now Gen<sup>l</sup> to an important part of our pathology viz the Passions, The diseases arising from the intellectual faculties & the venereal appetite, A gentle exercise of the faculties of the mind is favorable to health, but in—



and neither relative nor simultaneous but between the  
two - - - - -

these thought brings on debility, 1<sup>st</sup> when too long continued  
at all improper hours, Thus people who sit up late are seldom  
healthy, The midnight lamp ought for this reason to be avoid  
ed, 2<sup>d</sup> It produces debility when the subject is disproportion  
ed to the ability of the person.

The Passions are divided into Stimulant & sedative"  
The former as hope &c act positively, the latter as despair &c.  
act negative, These passions are divided into chronic & a  
cute or in other words passions properly so called & emotions  
Sometimes the passions are mixed & then they produce differ  
ent effects as ambition with fear

Love produces different effects according as the persons  
are successfull or not, Those who are disappointed in Love  
always love stronger after it, if at the time with their being  
rejected there is not something that will have a tendency to  
affront, For this reason Gregory in a Legacy to his daughters  
told them that when they were addressed by a man whom  
they intended to reject, to give him a refusal in positive  
terms, that he may have no possible hope of future success  
Unsuccessfull Love has a tendency to produce Dyspepsia  
Hypochondriasis, Hysteria Melancholy &c

104 is a powerfull stimulant & will sometimes pro-



"Rush says the system is above the weeping point -

-duce Truycop's death, The door-keeper to Congress in the time of the revolution was struck dead suddenly thro' Joy when he heard of the capture of Cornwallis, When Joy does not produce death the death a great depression of spirits often follow and even suicide, Joy is greater when the excitability has been accumulated by previous fear —

Anger is a powerful stimulant produces a flow of blood with many other uncommon emotions of the system. It will even produce death, A Shoemaker in this City, through excess of anger died, because he could not avenge himself of an injury done by a parcel of Boys — a miser whilst he was complaining of his taxgather fell dead —

Grief acts like a slow poison upon the system, It is one of the worst of sedatives, It produces dyspepsia Loss of appetite & Grief when excessive will prevent a flow of tears, "There is a point of grief at which may be called the weeping point above or below which tears will not flow, Tears flow when excessive grief comes down to the weeping point Hence the hypochondriac passions are so much better after the flow of tears in consequence of this it appears to approach the Hysteria, Persons under deep grief sleep more soundly than at any other time —



"and causes the Urine to flow involuntarily"

**Fear** when excessive produces a quick pulse dryness, debility  
Aphonia, Asphyxia, Mania, suspension of labor pains & death  
Fear causes the hair to rise upon the head, to become grey in one  
night. "A man's head became grey in one night in consequence  
of the excessive earthquake which destroyed Lisbon in 1775"

It acts on the mind & sometimes annihilates the desire of Life  
Speech gives energy in the time of fear, hence boys when under  
fear, banish it by talking of any other thing except the thing  
around them, It produces debility & accumulates excitabil-  
ity, hence the reason why Cowards perform great exploits

**Terror** is fear in a compound form when combined with  
anger, **Envy** acts like a perpetual Blister or issue  
**Ambition** is an Inflammatory fever of the mind  
& has great effects upon it, A Minister of state in Sweden  
died of a Cholera in consequence of his being taken from his  
place. — **Avarice** Many have died (to use the com-  
mon expression) in debt to their own backs & bellies, It ab-  
stracts from the love of ones country neighbours friends, rela-  
-tion, Servants, wife, Children and lastly ones self. —

The following Epitaph was written on the tombstone  
of the Avaricious Arch Bishop of Canterbury —  
Epitaph —



" a man that was married had communication  
with his wife 5 times a day for 3 years and  
emitted semen every time, but at last he became  
weak and tired of Life, and said that he would  
rather be cut: that alive - - - - -

" Dr. Webster in Lecturing said, that he was confident  
that the reason that men could not make the penis  
stand, was owing, to the person drinking too hard  
or the excessive use of women — — —



Here lies his grace, in cold clay clad

Who died for want of what he had

It is only by a knowledge of the passions of the actions in a simple & compound state that a man can have any influence over the minds of other men

The Venercal Appetite when indulged legally & religiously seldom does any harm, It injures when indulged by persons either too young or too old. The old are not affected except they have young wives or husbands, When an old man marries a young girl he expiates his folly by his death. It injures when accompanied by abstinence books prints &c By medicines operating upon the organs of generation as Cantharides, When gratified by Onanism, By excess in married Men which is relieved by Sacccharum or Salivation Low diet; By seminal punctions, In women this produces Fever Uterinus, The diseases are Dyspepsia, Gonorrhoea, Consumption &c "

Different situations as they influence health  
I formerly mentioned the diseases of Society which are divided into the savage Barbarous & Civilized all of which have there different diseases, as Men advance in Civilization Fevers diminish & nervous diseases take place



out of 200 weavers not one had a very sheath  
they worked under ground . . . . .

Different Governments, In Monarchical govern-  
ments there is less sensibility than viritability, but in Republi-  
can the reverse —

### Different religions

The doctrines of the Christian religion are more friendly to health  
than any other,

### Different employments,

Farmers  
are generally healthy, Carpenters are very long lived because  
they work in the open air, Fevers are more common to these  
two, and Scurvy to sailors, Rheumatism is common to Soldiers  
as well as Sailors, Coachmen are subject to diseases in consequence  
of waiting out in the cold for their masters, Weavers are particular-  
ly subject to disease as Dyspepsia, Hypercondriasis, Hysteria  
-costiveness &c. The posture of Shoemakers & Tailors invites to  
disease, Bakers from their living in damp cellars & from  
their being exposed to the dust of flour are subject to pulmona-  
ry diseases, From accurate observation made in the City of Lon-  
don the average life of a Baker was 3 years, Smiths from their ex-  
posure to heat & cold are subject to inflammatory diseases &c.  
Studious men are subject to head ache, dyspepsia & hence this  
last has been called - Morbus studiosorum, Judges are subject to  
calculi from their long retention of urine, Clergymen to  
Dyspepsia, Gravel, Consumption, Lawyers are less subject to  
the diseases peculiar to the other classes, in consequence of their



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Blending the exercises of the body and mind, I refer you to Ramazzani on diseases of different kinds of tradesmen

Different amusements, hunting is often a dangerous amusement, exposure to wet, cold hunger &c it brings on many diseases, different amusements are hurtful especially to the Ladies from their standing before a glass or under the hands of a Barber in a cold room previous to their going out upon a visit, Improper change of dress, The air of crowded assemblies, dancing, I knew person who died of a fit of apoplexy in leading down a Country dance, Theatre produces numerous diseases

Peculiar customs as productive of disease, There are a great number of diseases to which particular fashions & habits of men have given rise to, The first of these is dram drinking in the morning to act as an Antiflogmatic, It creates a fondness for spirits throughout the whole day & lays the foundation for drunkenness 2<sup>d</sup> The practice of drinking wine cutters before dinner is a dangerous practice, if the appetite be good it needs not an additional stimulus & if otherwise, the cutters creating one beyond the powers of digestion, will bring on indirect debility 3<sup>d</sup> The customs of women receiving lying visits, The female system is then in a very irritable state & by no means able to bear the stimulus of conversation 4<sup>th</sup> The tolling of bells for the dead, This





has a very bad tendency upon a sick person, 5<sup>th</sup> Chewing tobacco, see my essay

Diseases arising from unhealthy Ancestors, These are congenial & hereditary, of the first are many diseases, as measles Small pox Jaundice, Lues Venerea, Plague, Yellow Fever, Sore eyes Cancer gout & a child very much like his parents in the eyes & forehead, will very probably inherit the parents diseases Dr Russell says that in the time of the plague in Aleppo many children were borne off with the plague which their parents had

2<sup>d</sup> Hereditary diseases depend upon temperament & shape of an ancestor, Consumption is more frequently derived from the Father & mania from the mother, It is remarkable that the consumption seldom appears before 20 or 21 & madness not before the age at which it attacked the mother, generally in the decline of life between 60 or 70 When the parents have been afflicted with gout  $\frac{1}{2}$  the intemperance will bring it on in the children—Gout, hysteria, hypochondriasis & leprosy are all hereditary diseases, besides congenial & hereditary diseases there are family diseases as Epilepsy Palsy &c. There are many instances of diseases skipping one or two generations & then shewing itself You must not then confine yourself to the parents in searching for the source of diseases, but you will





often have to go back several generations, & regard to the operations of medicines in hereditary complaints is necessary, What was good in the same case in the ancestors, for there are family medicines as well as family diseases, This is of such consequence that I wish all those who have diseases communicable to children w<sup>d</sup> likewise leave with them the remedies they had found useful.

Diseases arising from the improper use of medicines, These have arisen chiefly from the injudicious confidence in false systems of medicines, The false systems of medicines from Hippocrates to Brown have slain their thousands in the hands of weak Physicians, That physician will have the most success in his practice who borrows a little from all the systems, Many hundreds have died in consequence of the publication of Dr. Chain on regimen by living on diet so low as not to sustain life, from taking Opium upon a supposition that it was sedative according to Dr. Cullen, From a confidence in the Asthenic diseases of Brown, But think not Gent that I do not hold out for a theory of medicine which have done much harm, But we ought not to reject entirely, The truth of the theory of medicine, because of the different spurious ones, than we ought the true religion, because there are many false & injurious ones in the world. The injudicious confidence of nature in its operations is also a cause of many





death. This injudicious confidence is just as absurd as to believe in witchcraft or animal electricity. One grand argument in favor of the operations of nature is that she is the only Physician in the brute creation, but this proves too much, Brutes seldom recover from a slight disease, such as we could cure in many by the application of a few simple remedies, But in this enlightened age, Nature seems to be the Pagado of many Physicians, If the regular Good Physicians have done harm by the means just mentioned how much more must have been done by the ———

Quacks & Mountebanks I once saw a dialogue between a sword & a run hoghead disputing which had done the most in destroying man, had a repensative from the quacks stepped forwards he would have gained the palm with ease. —

Diseases arising from the imprudent or habitual use of Medicines with or without the advice of a Physicians —

1<sup>st</sup> Purgers, These when given too often dispose to costiveness & thereby call oftener for their exhibition, different kinds of purgers do injury to different parts of the body, Aloes dispose to piles, Butter-milk will dispose to vertigo Salty &c Sulphat leads to a debility of the intestines, Purgers are often given to prevent eruptions & but abstinence from animal food would be much the best. —





2<sup>d</sup> Emetics The habitual use of them produces dyspepsia also other complaints of the stomach & by that means affect the general system they produce ruptures of all kinds. —

3<sup>d</sup> Bitters induce indigestion delicately dyspepsia & dispose to drain drinking &c Exercise is the best of all tonics with a well regulated diet —

4<sup>th</sup> Nitre has produced dyspepsia & a disposition to Colds &c

5<sup>th</sup> If used in the Spring without disease induces Plethora Apoplexy &c abstinence in the Spring is much to be preferred —

6<sup>th</sup> Sudorifics habitually used injure the system. —

7<sup>th</sup> The imprudent use of the warm bath or cold, disposes to many diseases but when the warm bath is used in the predisposing or forming states of fevers it is an excellent or valuable remedy —

8<sup>th</sup> Pediluvium when indiscriminately used as often does harm as good in predisposition to disease it has been of immense service but when morbid excitement prevails it produces delirium & increased every system of the disease, a pint of wine will do as little harm when the disease is formed as pediluvium —

9<sup>th</sup> Diet & Drinks suggested on by by false theories of medicine produces many diseases —

10<sup>th</sup> Exercise in excess is hurtfull especially in fevers —

11<sup>th</sup> Quack medicines of all kinds, have swelled the bills of





of mortality, Thus Godfrey's cordial has destroyed many children  
I saw it once destroy a child in this City, Turbulous Balsam has  
produced inflammation in the bowels & even death. Even the so much  
praised portland powder has done considerable mischief, But  
sometimes medicines do harm in the end when in the beginning they  
do neither harm nor good. What too in the arms of judicious Physicians  
This arises from a peculiar Idiosyncrasy in certain Constitutions  
Hence Gent, you may see the impropriety of blaming your Brethren  
even in medicine too soo

Sympathy & Antipathy, as inducing disease, This Gent is a  
different subject. That sympathy should exist in the minds is easily  
imagined, but that it should exist between Bodies is not easily  
imagined, The diseases of sympathy in Bodies seem accountable  
for upon the consideration that man is an imitative animal,  
This principal of irritation is a deep seated principal in the mind  
of most of the human race, It is to this that I refer yawning & gaping  
which are so infectious in large assemblies, to this likewise I refer  
the sore eyes which sometimes arise from viewing those that  
are sore, Even convulsions have been communicated by sympathy  
also stuttering jerks as they are called &c

But how shall we account for that intuitive evidence which  
some people discover in finding out events to which they are





entire strangers as to any external cause, Dr Johnson says that Lord Roscommon when a boy a School in France was suddenly when at play impressed with the Idea that his Father was dead who was then at the distance of 300 miles from them, True it was his Father died at the moment the Idea struck him —

Antipathy is often Congenial & acquired, some men are borne with an antipathy to water as Peter the great, King James was borne with an antipathy to a sword, others to cats dogs rats &c. I once heard of a man who could even tell when there was a cat in the room without seeing or hearing it, this must be owing to certain effluvia of the animal he hated, all these people are rendered liable to disease from their antipathy, which other people are exempted from, For instance a person having an antipathy to a cat will be excessively agitated & perhaps made sick by being confined in the same place with one, but this would have no effect on an ordinary person —

Diseases arising from the association of Ideas & motion of the former it is well worth attending to, there is scarcely a disease in which this association is not present, of the latter they are not numerous, 1<sup>st</sup> If a man accustoms himself to make water just before going to bed, he will be sensibly affected by omitting it once, 2<sup>d</sup> A Lady who took snuff profusely was at last la-





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then with the Palsy & became incapable of raising her hands to her face  
which she could very easily do when Sal Cornu Ceru was applied  
to her nose, These two facts are sufficient to prove the powers of the  
association of motion, It is by this association of motion, I account  
for the periodical returns of paroxysms in intermittents &c  
that is so proved by these paroxysms being prevented by exciting  
a new action or mode of association in the system, thus riding on  
horreback over intermittents by breaking the chain of association  
Salivation & travelling has had the same effect in Epilepsy. —

DISEASES from Accidents, I once saw a case of Hydro  
cephalus internus brought on by the stroke of a Hammer on the  
Head 18 months previous to it, and another of a pain over the eye  
in a man who had been frequently raised by the Head when a Boy,  
Mr Cambell was taken maniacal at 23 from the Kick of a horse  
which he received at 15. You see that we have to go back days  
months & even years for the remote causes of disease, See Bells  
Surgery for diseases of this kind. —

Diseases of time or old age, See my enquiries, I shall  
however mention such facts as have occurred to me since their  
publication, 1<sup>st</sup> The state of the stomach greatly influences long  
evity, I never knew a man to live to be old who was subject to sto  
mach complaints, we should never eat what disagrees with our





Stomach, It is the conscience of the body, The signs of a healthy stomach are 1<sup>st</sup> an appetite & an ignorance that we have one 2<sup>d</sup> That we have no more of the food after we swallow it, i.e. no signs of flatulency heart burn &c.

2<sup>d</sup> Migration influences the approach of death, Europeans by coming here, after they are 40 generally add several years to their lives, old persons frequently prolong their lives by migrating from one country to another situated in a more southerly latitude.

3<sup>d</sup> However long some people live few die of old age.

4<sup>th</sup> It is computed that only 6 out of a 100 reach 60 years.

5<sup>th</sup> More people women live to be old than men, but more men to be very old than women.

Predisposing causes of disease, There are either natural or artificial. The natural occur in different ages and conditions of the system as — 1<sup>st</sup> Infancy, These arise from the disproportion of the head & consequently a greater determination of blood to that part, Hence eruptions behind the ears, Tinea Capitis, apoplexy, Hydrocephalus &c. Infants have less assimilability and less sensibility than adults, Hence they are more more disposed to convulsive diseases of the Stomach & bowels &c. Stentition not only produces painful & swell





red gums, convulsions fretfulness &c. but I have seen it produce swellings of the inguinal glands & gonorrhoea, Tumor tenderness of the skin passions &c. all become the source of disease in Infants. It is computed that  $\frac{1}{2}$  the Infants die under 10—

3<sup>d</sup> Childhood & Puerility, The diseases of Infancy are nearly applicable here irritability still predominates over sensibility.

One half of the Children die before the age of puberty, more die in warm than in cold countries, more among the poor than among people in easy circumstances—

3<sup>d</sup> Puberty. In this sensibility begins to get the upper hand of irritability, Here febrile diseases of an inflammatory nature begin to take place, as Pueritis Pulmonalis Catarrh Dyspepsia, Hypochondriasis, Hemorrhages &c. most of these diseases may be prevented by low diet & purging &c.

4<sup>th</sup> Adolescence & Manhood, takes place at 18 and continues till 36, The diseases of this age arise from a determination of the blood to the organs of generation, They are diseases of the stomach, Dyspepsia, Hysteria, Hypochondriasis, pain in the limbs & joints, swelling in the neck & groin giddiness in the head & those which arise from the exercise of the Venereal appetite. From 36 to the 46 year of our life, the venous plethora prevails over the arterial, From 40 to 57 there is a better health, more—



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happiness & fewer deaths than at any other period, The excitability  
& excitement being equally proportioned to each other, but old age  
soon comes on the menses in women now cease to flow this disposes  
to many diseases, as soon as man begins to use spectacles, he may  
be said to have put on part of his shroud & when he rises in the  
night to discharge his urine he may then be said to have ad-  
vanced the first step to his grave, From 57 to 63 the system is pre-  
disposed to Colic vertigo & apoplexy, from 63 the system gradually  
decays, It is then that a 2<sup>d</sup> Childhood is produced & here again  
excitability predominates, Thus a man who at 40 would drink  
his bottle a day, would at Sixty or Seventy be intoxicated with 3 or 4  
glasses, It is at this period that the grasshopper becomes a Burth-  
-en, They are more disturbed at trivial accidents & are more sen-  
sible of the changes of heat & cold, after this the body advances  
to 80 or 90, The fluids of old people become acrid by age, as the  
tears, gastric juice, urine & Mucus of the Nose &c. Hence trifling  
sores often terminate in cancers in this time of life & bruises end  
in mortification, There muscular weakness also attends, Hence  
the shaking of the knees head & hands.

The diseases of old people are Chronic & Acute, The  
former attacks first the Blood vessels, 2<sup>d</sup> Nerves, 3<sup>d</sup> The mus-  
cular system, 4<sup>th</sup> The Brain, & the alimentary canal



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Some old people take a pride in shewing their strength by standing  
thexposing themselves to cold, by this they not only suffer sickness  
but death, Few people die of old age, they are frequently said to  
die of old age, but when this is the case they leave the world without  
pain & death is nothing more than a sound sleep, Dr Priestly  
told me that his Father died of extreme old age alone, He was  
sitting in his arm chair surrounded by his family & the last words  
he uttered were "that he felt no pain whatever and with these  
words he breathed his last

Conditions of the system in single & married life as predis-  
posing to disease

Married people are generally of longer life than single  
Single people are subject to hysteria &c. women are disposed to  
disease from disappointments in love, Ceteris paribus, a greater  
proportion of single men & women die in a given time than  
married

Barrenness is often a source of disease, I once knew a Barren  
Lady who upon seeing a pregnant Beggar said "I wou'd be that  
women with all her rags if at the same I wou'd be with child

Barrenness, Bachelors live a hypochondriac life, It  
has been said that a bachelors life is a good breakfast, tolerable  
dinner but a very bad supper, Pregnant women are subject



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to acute diseases, The consumption is suspended during pregnancy because the Inflammation of the uterus is so great as to take the determination from the lungs, but when the uterus is relieved of its distention many other diseases may arise from the abstraction of its former stimuli. Pregnancy pre-disposes to costiveness, vertigo, Mania &c. Suckling Children to consumption & a suppression of milk to cancer's tumour &c. There would be few cancerous Uteri if Opium was more used about this time of Life. Some diseases are apt to produce abortion as Influenza even when moderate, while the small pox & others of a more powerful nature do not, The Menses cease to flow between 45 & 50 then the system becomes plethoric & disease may be prevented by occasional Vespurgings Low diet & exercise.

Deformity in size or in the figuration of the whole or any particular part of the body predispose to disease, People uncommonly large or small are apt to be very short lived, Very tall men according to Dr. Darwin seldom live over 25 or 27 years, Dwarfs are generally short lived, The following is an exception to this, two dwarfs that were brought from Germany in the time of George 1<sup>st</sup> lived 80 years, Those who grow very fat before 40 are generally very short lived, Large heads & short necks dispose to apoplexy, narrow chests to diseases of the lungs, Montaigne says



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that deformity of particular parts dispose to increase the venereal appetite, women suffer less from deformity than men, Congenial weakness of a part or of all the body dispose to disease, One disease badly cured dispose to another thus Pneumonia badly cured disposes to Consumption, Intermitents to Jaundice Dropsy &c. The present King of England is only a 7 months child but in consequence of his temperance has reigned many years, of the all parts of the body the Stomach Liver & Spleen are the most susceptible of disease, I must not conclude this subject without taking notice of the causes & Phenomena of death —

Death follows the absence of stimuli which support life, these stimuli losing their effects by repetition, the excitement being smothered as it were by the excessive force of impressions &c. Morbid excitement just before death fixes in succession in different parts of the body, Falling upon the Brain it elevates the genius above its ordinary exercise gives occasionally more talents, as a talent for Music poetry &c. Recusitates dormant impressions, so that a language long forgotten is spoken again, Transferred to the trachea & glottis, morbid excitement just before death produces a very strong voice, the rattles &c. Transferred to the Stomach. a wonderful appetite is excited just before death, To the muscles it produces rigidity in them & convulsions — To the penis producing



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pariapism, To the arteries producing activity of the pulse at the wrist, Morbid excitement just before death, whether fixed diffused or flying is frequently attended with great pain, which pain is constant or attended with Intermittions, Death from old age is never painfull, Sometimes at death morbid excitement becomes stationary, at the period point of pleasure & the person feels pleasure while dying, Death is often attended with great pain fears of futurity, but sometimes the wicked are unconcerned about futurity, The coldness attending death generally begins in the toes & fingers, but sometimes in the wrists, There has been many disputes about the *Ultimum Moriens*, I am of opinion that this depends very much on the nature of the disease the person dies of, The stomach & bowels generally retain their vitality for some time after death, tho I am disposed to believe it continues for some time after the heart & respiration has ceased, Heat and color often fluctuates in the body for 2 or 3 days after death, A yellowness of the skin often takes place at the moment of death, The Pupils of the Eyes become less.

This Gentlemen finishes our pathology, I again repeat that there is but one disease, morbid excitement; but one predisposing cause, debility, & but one exciting cause an Irritant.



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# Therapeutics. —

Gentlemen

After having considered the remote, exciting & predisposing cause of febrile disease we proceed to Therapeutics & view the system in a morbid state with the debility predisposing & following disease, Chemistry Mat. Medica Anatomy Physiology &c. are all valuable only because they throw light upon the practice of Physic & cure diseases, all these branches are necessary to be understood by a Physician & also Surgery & midwifery, Therapeutics or the art of curing diseases formed upon a knowledge of their cause, I have uniformly considered as a science, Medicine has improved in proportion as it has become a science & received aid from other auxiliary sciences, I shall not give you a particular history of medicines and their doses that I leave to Dr. Barton, I shall only give you a general account of the tools or medicines you are to use & the manner of using them. The first article in our syllabus on Therapeutics is respecting the powers of nature in curing diseases, what is at present called the supposed powers of nature was the *Anima medica* of Stahl, the supposed powers of nature arise entirely from physical necessity.



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1<sup>st</sup> There are however cases in which nature is too weak & feeble to do service as in malignant fevers —

2<sup>d</sup> There are however cases in which nature cures diseases, such as in fevers causing a dislike for food, in hemorrhages by causing faintness & consequently a collapse of the vessels & in wounds by supplying new bones & flesh —

3<sup>d</sup> In others she is not proportioned to the disease as in Cholera Morbus

4<sup>th</sup> Entirely idle sometimes, as in Chronic gout, Epilepsy, Mania Cancer & Syphilis —

5<sup>th</sup> Sometimes refuses her aid as in Aneurism & scirrus —

6<sup>th</sup> Sometimes does mischief as in dropsy & Consumption —

7<sup>th</sup> Sometimes excites less pain than is proportioned to the disease as in Tetanus & sometimes more as in Whitlow & tooth ache —

8<sup>th</sup> Nature is weak in the diseases of domestic animals for in these disease & death are very nearly connected, especially in Epidemics — I am not the first who supposed

the operations of Nature in curing diseases, Sydenham & Mead were long ago opposed to the operations of Nature, The effects of Nature in the cure of Diarrhea & Pleurisy bear no resemblance to Opium & the Lancet which are our sovereign remedies

Nature in health is like a man in his senses but in disease like a madman — She may be compared in disease to a —



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drunken man in a dark room who after finding the door stumbles  
against it, breaks it down & ends its existence at the same time, In  
short when you are called upon to prescribe in acute diseases, you  
should serve nature as a cat or dog in a sick room i.e., turn her out  
of doors, In the cure of diseases, however, the operations of nature may  
be attended to but not trusted, In Epidemics, if the bowels should  
be affected & show a tendency to every of the disease by discharge  
this operation should be assisted by purges, If hemorrhage from the  
nose attend the disease, bloodletting will be proper, If boils or erupti-  
ons on the skin appear substitute an artificial disease on the sur-  
face, If sweats accompany this sudorifics should be administered  
Lastly if sore throat or a disposition to cough attend, Mercury  
should be administered to expel the morbid matter, You see  
gent that Physicians should be the masters & not the servants  
of nature as Hippocrates said.

One outlet to a disease should not be solely attended to, altho'  
it may be sufficient in a few very mild diseases yet every avenue  
& outlet thro' which it might pass should be opened  
There are some diseases which should not be cured by art as  
eruptions on the heads on children, These should not be cured  
unless some other mode be instituted to carry off the matter  
The bloody piles in old people should not be cured unless we





substitute some vicarious discharge from the body

Diarrhea often should not be cured

Intermittents succeeding madness or Palsy should not be cured

Dr. Bond advised his maniacal patients to visit a marshy country & thereby get the intermittent as a palliative of mania but of course in this case would have been much better

Gout & Rheumatism succeeding mania & melancholia should be cherished Dr. M. had a daughter that was twice taken with mania upon the retrocession of a head ache

Old fetters or sores should not be cured up because apoplexy or Palsy often succeed a sore thus cured unless some vicarious discharge be substituted, Death has often been brought on by curing sore legs in old people, Ascites should not be relieved by tapping after remaining a long time, for it is rarely cured by it, I have seen death succeed tapping after a few days, Venous the Lymphatics are sometimes roused into action & cures, Gonorrhoea should not be cured when it has suspended other diseases of a more violent action. Natural sweats from the feet should not be stopped. There are some cases in which pain should not be relieved but these are very few

In Epidemics we ought to pay particular attention to the climate & all local circumstances, to the seasons of the year, heat & cold, dry & moisture, There are no successive Epidemics perfectly alike



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in different years, consequently the practice should be suited to these different circumstances & regulated by the national temperaments habits dress, customs & attention ought always to be paid to the Country from whence the person came Intermittents when they attack a native of Ireland frequently require 1/2 & seldom yield to the Bark after he arrives in America, untill the use of the Linctus has been used, while in the natives of the middle states intermittents generally yield to the Bark alone, The particular desires & Longings of the patient should also be always attended to, In the time of the American revolution the soldiers of the eastern States were affected with Nostalgia, while the Virginians longed for Corn bread & Salt pork, appetites however singular should not be neglected, nor are the forms of Government or Religion, Individual temperaments & habitual diseases or habitual remedies are not to be left out of consideration

In chronic & hereditary diseases you should look back as far as the 2<sup>d</sup> & 3<sup>d</sup> generation —————

Whole families are sometimes carried off by diseases contracted by peculiar habits, Witness Dr. Craig's family of Alexandria all of whose children have died with consumption whilst his wife & himself remain in good health,

The age of Men the state of their Hemorrhoidal



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effects of the Catamenia in women are not to be overlooked also worms  
in children we should have in 'view in our prescriptions.

There are often recent causes of disease which Physicians should  
always have in view, as hard drinking, intemperance in eating  
quill time, debility, mortifications &c. which should be sought  
for from their friends, acquaintances, & not from the patient him-  
self. Physicians must look back frequently months years  
for the causes of disease, The removal of the remote cause as Cel-  
sus says, for there are two words, "soluta causa tollitur effectus"  
will not cure the disease, for the Hydrocephalus Internus of  
Children, to which worms predispose, is not cured by the remov-  
al of the worms, In the treatment of diseases, hope as far as con-  
sistent with truth & reason, should be inspired into our pa-  
tients, for it is the best vehicle of medicine & the greatest cir-  
cumspetion is necessary that not even a doubt be expressed  
for it defeats the intention of medicine, The principals of  
faith should also be attended to, Hence quacks so often suc-  
ceed in the cure of diseases, The predisposing cause of all dis-  
eases is debility which appears to be a mechanical power  
in medicine.

There are perhaps no diseases which do not appear to have  
alternate exacerbations & remissions which sometimes





require different & even opposite remedies, In the first case sedatives are necessary, In remission debility is frequently present & requires the administration of Cordials In chronic diseases the patient should regularly take his medicine, It is frequently of very great importance to advise patients to continue the use of their medicines even when they feel the least want of them, Debility which is the true disposing cause of disease, is not confined to days, weeks nor to its forming state, it frequently succeeds disease, in which case the patient should continue the medicines which cured the disease for even months & years Disease may be compared to a garrison the besiegers of which sh'd never be idle, unless there be a certainty of bringing on a capitulation by starving the people therein

The choice of Medicines, Formerly they were thought to be valuable according to their prices, I suppose all disease may be cured by a few medicines, which by being better known will be more certain in their effects, an advantage frequently arises from concealing their names

Respecting the operation of Medicines, two opinions have prevailed one is that they act more certainly in a simple form while others contend for the advantage arising from combination, These opinions appear to be reasonable, The Bark Opium is best when exhibited in a simple state, While Sugar enables the stomach to retain





medicines which it would otherwise reject, In this case a weak pleasurable sensation overcomes a powerfull disagreeable one, Bark & Valerian combined will cure certain head aches, but when sepe-  
rate avail nothing, Opium & alkali will cure certain cases of teta-  
nus, yet when sepe-  
rate avail nought, Dr. Fourdise contends  
for the advantage arising from compound medicines & says that  
~~some medicines are stronger~~ Allum is a greater astringent when  
combined with rose water than when alone, Dr. Hall also con-  
tends for the combinations of medicines & says that some med-  
icines are stronger enemies to the system & should not be in-  
troduced into it without their guides or spys, Squills & Gum  
Ammoniac when combined form a better pectoral than either  
of them sepe-  
rately.

Sartorized Antimony & Ipecachuanna form a better emetic  
than when sepe-  
rated, Capsicum & pepper give no heat in the sto-  
mach, as when sepe-  
rate, Neatness & Cleanliness should be great-  
ly attended to in our preparations of our medicines, Writing the  
name of the Patient on the paper, this should always be done.

Drawing the mind from itself, or in other words, drawing  
off the attention of the patient from his disease is very benificial  
Dr. Cadwallader was very successfull by this practice,  
He once by reason of his great humor prevented a man from



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committing suicide, It is of great consequence to recollect the different effects of Medicines on adults & children, For Saccharum will cure Epilepsy in children but not in adults; The tone of the conversation should be suited to the state of the mind, Hence mirth is sometimes beneficial & sometimes prejudicial mentioning high priced medicines to persons who are unable to purchase them should be avoided, Physicians <sup>should never advise Patients to make</sup> as well pass sentence <sup>unless</sup> of death upon them, but they should always inform the friends of the patient concerning his danger, The best medicine that can be used is sometimes no medicine at all, If the patient is constantly wishing to take medicine, feed him up with bread pills or some other convenient article on which he should be encouraged to place confidence, Concerning the operations of medicines there is more fallacy in the opinions in the opinions of Physicians than in any other point, Dr Fordyce says the best effects of antimony in a fever is to produce a relaxation of the Skin, whilst Dr Cullen thinks that Nausea is of the greatest advantage, Since we reject Empiricism we must always prescribe for the symptoms of the disease & as consultations may be useful in some diseases as compound medicines they should always be resorted to —  
 1<sup>st</sup> as Iron sharpens vision so will the opinion of one Physician assist another —





2<sup>d</sup> Novelty of two or more Physicians may inspire hope & even confidence in the Patient

3<sup>d</sup> Responsibility is divided between the consulting Physicians  
Cases in which a consultation is necessary, 1<sup>st</sup> In doubtful cases, 2<sup>d</sup> In dangerous tho' not doubtful, 3<sup>d</sup> In uncommon cases 4<sup>th</sup> In desperate, 5<sup>th</sup> When new medicines are supposed to be proper 6<sup>th</sup> In cases where there will be probably an appeal to justice for the life of a patient should not depend upon the testimony of one man, or at least a physician would not be willing to bear testimony alone, when the life of a human being depended upon his opinion, In consultations choose physicians whose principles are similar to your own, Two modes of practice tho' each may be good when separate, yet when combined always do harm Remedies for preternatural excitement gentle purges & Phlegm and in some instances of debility when it precedes disease the remedies & gentle Stimulants & rest, the should vary according to the seat of it, debility when it falls upon the blood vessels requires different stimulus than what it does when it falls upon the Lymphatic system —

We come next to the application of our Principles, 1<sup>st</sup> effect of impressions upon healthy impressions excitement is to elevate it up to 60 on our scale and pro-





duce preternatural excitability

2<sup>d</sup> Debility from action is produced by a longer application of impressions, The system is now at 40, If you abstract or add impressions the effect is the same viz debility

3<sup>d</sup> Depressions, the system is now at 30 these states of the system are attended with accumulated excitability, if the impressions act suddenly

4<sup>th</sup> Diseases or morbid excitement is produced by a still longer application of impressions, but of these impressions act gradually, both excitement & excitability are worn down & no disease is produced

5<sup>th</sup> Oppression or suffocated excitement, Prostration, Disorder, Debility, The system is now at 20

6 Prostration, The excitability is now smothered & the system cannot react, new & different stimuli must be now used to rouse the latent excitability, which is enveloped as it were & will not emit the motions of life

7 Disorder, 8<sup>th</sup> Death

When debility is suddenly induced it is attended with accumulated excitability & should be treated with low diet & gentle medicine, but when debility is induced gradually, we must gently stimulate.



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Elevation shews itself by alacrity & wakefulness & an increase of appetite, Depression is followed by a tendency to disease sometimes, in this case depletion should be used, but when there appears to be no tendency to disease stimulants should be used, we must equalize excitement & divert it from vital parts by depletion & stimulants.

Medicines have been divided into sedatives & stimulants. The 1<sup>st</sup> class viz sedatives act by abstracting & reducing morbid excitement, The 2<sup>d</sup> class viz stimulants act by equalizing excitement by creating a new action, by diverting it from parts more essential to Life to those which are not so much so by rendering it natural.

Sedatives are divided into direct & indirect, Those which act directly by lessening the stimulus & abstracting morbid excitement are

1<sup>st</sup> Bloodletting

2<sup>d</sup> Cold applications, by air, water, or ice when the system is about 96 and skin dry, useful in muscular diseases

3<sup>d</sup> Fear, This reduces morbid excitement by abstracting the stimulus of courage

4<sup>th</sup> Abstinence, This of is different grades, 1<sup>st</sup> refraining from fresh animal food, 2<sup>d</sup> from salt meat, this is not so now



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shing a fresh meat since so great a quantity of it cannot be eaten, 3<sup>d</sup> from fish, 4<sup>th</sup> from milk & Saccharine matter, 5<sup>th</sup> from liquid aliments of all kinds, abstinence acts in 3 ways 1<sup>st</sup> By lessening the fullness of the Blood vessels & thus diminishing all the secretions, 2<sup>d</sup> By abstracting the stimulus of 3<sup>d</sup> By creating <sup>when great</sup> hunger is induced, a new action & thereby diminishing morbid excitement, the operation of abstinence is too slow in acute & is only to be trusted in Chronic cases & in those cases of debility, when it increases excitability & thereby leaves greater room for the action of tonics, The three following facts with respect to abstinence should not be forgotten, 1<sup>st</sup> the Indians abstain from food previous to a battle, hence so few of the wounds prove fatal, 2<sup>d</sup> animals fasting sometime before their death are after death less predisposed to putrefaction, 3<sup>d</sup> we always bear fatigue after a vegetable diet or abstinence better than when we eat plentifully of animal food — 5<sup>th</sup> rest abstracts the stimulus of muscular motion 6<sup>th</sup> Darkness abstracts the stimulus of Light — 7<sup>th</sup> Silence the stimulus of sound —

The abstraction of excitement should always be performed in a gradual manner hence the saying "Natura nihil fit per saltum"



\* Are deprived of their virtues in their passage thro' it

Here we will premise a few propositions. —

1<sup>st</sup> I believe there is an action of Specific stimuli; —

2<sup>d</sup> That stimuli act on the whole system thro' a particular medium, here the Stomach is the great medium, thro' which medicines act on the whole system & it possesses the greatest sympathy of any part of the Body. It may be compared to the regulator of a watch. —

3<sup>d</sup> There are medicines which act on sensibility as Camphor, mustard &c. Some which act on vitality as Digitalis & some which act on both as opium & Bark —

4<sup>th</sup> There are some Medicines which enter the Blood + —

5<sup>th</sup> There are some which are deprived of their Medicinal qualities by passing thro' the Body —

6<sup>th</sup> The different parts of the system are capable of receiving more than one stimulus & even such as are of opposite force at the same time —

Those Sedatives which act indirectly are such as open the Bowels, these I shall divide into three classes viz —

1<sup>st</sup> Laxatives as Crystals of tartar, Natron clysters, such as act only by their quantity, Castor Oil Manna with the different Salts &c. 2<sup>d</sup> The active & Rhei Jalap Calomel &c. & 3<sup>d</sup> The Drastic purges as Gamboge scammony Aloes &c. —



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## Cathartics are indicated —

- 1<sup>st</sup> By a distention of the bowels with fecis for this N<sup>o</sup> 1 sh<sup>d</sup> be used
- 2<sup>d</sup> By complaints of the head for this N<sup>o</sup> 1, namely the Cerebr<sup>al</sup>
- 3<sup>d</sup> In congestion of the viscera for this N<sup>o</sup> 1 —
- 4<sup>th</sup> In all cases in which the bowels are unable to perform their functions here N<sup>o</sup> 3 or drastic are necessary
- 5<sup>th</sup> In all ~~cases~~ diseases of the contiguous viscera for this, 1, 2
- 6 In all diseases of the skin for this N<sup>o</sup> 1, 2 —
- 7<sup>th</sup> In dryness of the skin from the excitement of the capillary vessels for this N<sup>o</sup> 1 or 2 —
- 8<sup>th</sup> In all Plethora for this N<sup>o</sup> 2 —
- 9<sup>th</sup> In all dropical effusions they are proper by lessening the excitement & producing absorption for this, 2, 3 —
- 10<sup>th</sup> In obstructions of the Hemorrhoidal vessels for this 1.
- 11<sup>th</sup> In obstinate obstructions of the Hemorrhoidal bowels for this N<sup>o</sup> 1, 2, 3 —

Here it will be proper to remark that purgatives in a smaller quantity will not operate after a larger quantity has been used & that a greater quantity should be given to have the same effect, if previously the system has been habituated to the same medicines, as an alter native they should be given to produce an artificial





*Diarrhoea*, When it is necessary to continue purges a great length of time they should be varied, No solid food should be taken during the operation of purges & they are not so certain in their operation if liquids be copiously given, The mild purgatives induce sweat more speedily than the drastic, Clysters act by their quantity & quality, Purgatives are forbidden in the following cases —

1<sup>st</sup> In diseases of weak morbid excitement, 2<sup>d</sup> In the typhus state of fevers, 3<sup>d</sup> In hemorrhages of the bowels 4<sup>th</sup> in the first stage of Colica Pictonum.

*Emetics* These are divided

into four classes viz the prompt mild powerfull & nauseating

1<sup>st</sup> Those which act powerfully promptly as tickling the throat with a feather putting the finger down the throat warm water Sulphat Zinc, or white vitriol &c —

2<sup>d</sup> Those which act feebly but certainly as Ipecac & Squills

3<sup>d</sup> Those acting forcibly on the Stomach as Antim Tart, Turbith mineral &c —

4<sup>th</sup> Those which act by nauseating the stomach as digitalis & tobacco which last may excite vomiting by being moistened with brandy & applied externally —

*Emetics are Indicated* —

1<sup>st</sup> In cases of swallowing large doses of Opium & Arsenic, In



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these cases the first class should be used, I have prevented death in two instances by these means.

2<sup>d</sup> In Here the 2<sup>d</sup> class should be used.

3<sup>d</sup> In discharging bile, mucus or indigestible matters from the stomachs here the 2<sup>d</sup> should be used.

4<sup>th</sup> In languid state of the stomach, here the 2<sup>d</sup> class should be used.

5<sup>th</sup> In morbid diseases of the head in consequence of its sympathizing with the stomach, Here the 2<sup>d</sup> or 3<sup>d</sup> class should be used.

6<sup>th</sup> In tumors in the remote parts of the remote body as Cancers &c. here the 2<sup>d</sup> or 3<sup>d</sup> class should be used.

7<sup>th</sup> In dropsical swellings here the 2<sup>d</sup> or 3<sup>d</sup> class are proper.

8<sup>th</sup> In an oppression of the Lungs as in Catarrh, Pul. Consumption Cyaniche Trachealis &c. But when the Lungs are affected with disease, they should not be used, for the 1<sup>st</sup> the 2<sup>d</sup> class is proper.

9<sup>th</sup> Indryness of the skin here the 2<sup>d</sup> or 3<sup>d</sup> class is proper.

10<sup>th</sup> In the forming state of malignant & cutaneous fevers, 2<sup>d</sup> or 3<sup>d</sup> class are proper here, They act in two ways, 1<sup>st</sup> by equalizing excitement & by discharging the seeds of the disease.

11<sup>th</sup> They are more powerfull & effectual in diseases of children than in adults; children require more powerful Emetics than adults as their stomachs are lined with mucus, They are us,





gall in Diarrhoea & in some cases of dysentery.

In the exhibition of Emetics you must observe,  
1<sup>st</sup> To give them in divided doses, in order that they may not  
act too powerfully upon the patient, 2<sup>d</sup> That as little water  
be given as possible when we want a ~~powerfull~~ prompt ef-  
fect, 3<sup>d</sup> That they operate more powerfully & certainly in  
the morning, the system being at that time predisposed to  
sickness, 4<sup>th</sup> never suffer them to operate when the patient is  
recumbent, because by this means we prevent spasm —  
5<sup>th</sup> their operation is checked by R. Opii or a spoonfull of Salt  
thrown into a pint of water.

Emetics are forbidden, 1<sup>st</sup> In violent inflamma-  
tions & congestions of the head & bowels, 2<sup>d</sup> in too feeble action  
of system, 3<sup>d</sup> In advanced pregnancy, 4<sup>th</sup> In ruptures of all  
kinds, 5<sup>th</sup> In low chronic fevers & general debility succeeding ac-  
cute diseases.

*Diaphoretics* Increase the discharge  
of the vitated humors thro' the pores of the skin & act either  
directly or indirectly.

1<sup>st</sup> Those which act directly on the skin are pediluvia, baths  
of warm water, vapour bath, & lay of the heat of the body & azote  
-applied to the body. By covering the head with a blanket, there





may be called external sweats,

2<sup>d</sup> Those which act indirectly, & produce their effects by increasing the action of the heart & arteries, are exercise to promote sweat cold water, this acts in a twofold way, 1<sup>st</sup> By reducing the immediate action of the Capillaries to the sweating point, 2<sup>d</sup> By the reaction of the skin when it is below this point.

Diaphoretics act on the system Capillary vessels indirectly thro' the medium of the stomach.

1<sup>st</sup> By nauseating as Antin Tart &c. 2<sup>d</sup> without nauseating as nitre eupatorium cold water &c. these I call stomach sweats.

&c. when the Capillary vessels are above the sweating point,

these last act upon the skin by means of cutaneous sympathy.

Diaphoretics act when the capillary are above the sweating point, by diminishing the excitement directly, 2<sup>d</sup> when they

are below it, by increasing it directly or indirectly, 3<sup>d</sup> by

their action being determined to the surface of the body, as

Dover powder, vinegar, acetent sp, eupatorium &c. 4<sup>th</sup> By

the stimulus of distention, produced by warm liquids of every kind, each of these methods are necessary & are often indi-

1<sup>st</sup> to discharge diseases from the blood, The miasmata exciting fever often attempt to escape thro' the pores of the skin I have heard of a young man in whom the syphilis went off by





by the Capillaries, The poison of animals also escapes sometimes from the blood thro' the skin by means of diaphoretics.

2<sup>d</sup> They are indicated when the symptoms are so mild as not to require blood letting.

3<sup>d</sup> In centrifugal diseases, as Rheumatism, Pout &c. when they affect the limbs, here I take notice that diseases are called centrifugal when they affect the extremities & centripetal when they affect the body as Colic Dysentery &c.

4<sup>th</sup> In dropical swellings when the symptoms are below the sweating point.

5<sup>th</sup> In fevers in which there is a disposition to sweat, tho' excessive sweating is sometimes hurtful.

Rules should be observed in the exhibition of Diaphoretics

1<sup>st</sup> Perspiration is most easily induced in bed, to excite flannel should be worn next the skin, more perspiration will be induced in 9 hours in bed than 15 out of bed.

2<sup>d</sup> subdivided meals because the stomach being full & empty is unfriendly to perspiration.

3<sup>d</sup> Great attention is to be paid to the heat of the body because sweat cannot be induced with safety when the heat of the body is above 108 of Fahrenheit's Thermometer.

4<sup>th</sup> The temperature of the drinks should be warm when the heat of the system is below 98 and when above 108 of Fahrenheit's.





5<sup>th</sup> Diaphoretics are to be regulated by the state of the disease

6<sup>th</sup> They should be suspended occasionally & used moderately  
least exhaustion should take place

7<sup>th</sup> Care should be taken to have the linen & bed cloths of the patient often changed, because sweating is sometimes checked by a stiff shirt

8<sup>th</sup> It is common to give diluting drinks in cases of redundant fluids & from redundant excretions, this practice is improper, But in cases of poison this should be done,

9<sup>th</sup> Guard against cold & avoid purging & blistering, when you prescribe diaphoretics, unless the urgency of the case requires it

Diaphoretics are forbidden, 1<sup>st</sup> in highly inflammatory cases, 2<sup>d</sup> in weak morbid excitement, 3<sup>d</sup> when they weaken without relieving

**Diuretics** are medicines which increase the urine and are 1<sup>st</sup> cold air applied to the body when a child heated going into a cellar climbing up stairs, hearing a stream of fluid running from a barrel, cold water applied to the body, abstinence, fear, onions applied to the navel, these I shall call external diuretics,

2<sup>d</sup> diluting drinks, such as melon, seed tea, white carrot seed tea, parsley tea, Dr. Caldwell cured a patient of dropsy





with the perspired after tapping had failed, This class I shall call diuretics —

3<sup>d</sup> Those which act on the kidneys by sympathy with the stomach as Salt of Tartar. Neutral salts vegetable acids, alkali & they are indicated where the kidneys refuse to perform their office or where they are suffocated with Morbid Excitement.

Diuretics are forbidden in all cases where there is an inflammation of the kidneys —

Stimulants are Evacuents & Revulsives  
Evacuents act first, By discharging fluids from parts contiguous to the salivary glands, such as tobacco Angelica &c.

2<sup>d</sup> By discharging fluids from the whole body in the form of saliva, such as Mercury arsenic sacch saturnum &c. Mercury acts both as an Evacuent & revulsive, It is one of the most powerful articles of the M. M., yet its operation is disagreeable & loathsome, It has been said that mercury is not only a loathsome, but also an unnatural remedie, but this is not the case for mercury is the first remedie of nature, if we admit that sore mouths & Aphthae are the first diseases of children, — Hence when children sleep much the gossip say that they are sleeping for a sore mouth, & if examined at this time they will be found to have a fever. —





A determination to the mouth & throat is frequently the disease  
of children, or rather the attempt of nature to cure the disease  
as *Scarlatina Anginosa*, *Guanche Trachealis* —

In adults spontaneous salivation sometimes accompanies fever  
& the small pox sometimes, & is generally a symptom of a favorable  
termination, Death frequently succeeds this useful & salutary  
remedy, if it be suddenly suppressed, If a cough & salivation  
attend patients with the yellow fever they generally recover  
Sydenham mentions a malignant fever In 1770, being cured  
by a spontaneous salivation, A spontaneous salivation has cured  
suddenly Dysentery & Gout, A spitting has occurred in Ma-  
nia & was called by the old writers *Sputatoria*, It is favor-  
able in Autumnal Fevers, It is strange that it has not been  
long ago used in these cases, & that we do not always excite  
it when useful, that we so often excite it when not useful  
& that we do not destroy life by it as Nature does in Ap-  
tho malignant sore throat &c.

The auxiliaries to excite salivation, are 1<sup>st</sup>  
Of which is of much consequence, 2<sup>d</sup> Low diet, 3<sup>d</sup> Emetics  
4<sup>th</sup> opium, This assist by inducing constipations, 5 cold bath  
& ice applied to the head, Dr. Armstrong of St. Petersburg used  
the cold bath to assist the operation of mercury —



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I have used that as well as other cold applications, D<sup>r</sup> Bloom-  
field used the cold shower bath & the partial cold bath as  
auxillaries to Mercury in producing salivation, D<sup>r</sup> Chisolm  
tells us that Mercury acts soonest in warm weather, 6<sup>th</sup> Mercury  
is greatly assisted in producing a salivation when combined  
with Jalap, 7<sup>th</sup> With antimonial powders, 8<sup>th</sup> with friction  
of mercurial ointment, 9<sup>th</sup> Nitroated or munitated Mercury  
to be treated tried with friction, Calomel & corrosive  
sublimate, when we wish to give Mercury secretly, we  
may put Calomel upon bread & butter & let the Patient  
eat it, It is not necessary in order to produce a revulsion  
that a profuse salivation is necessary or even a Ptyalism  
In some cases not even a soreness of the Gums

For restraining a salivation of Opium, Purges, Blisters, Oils  
& Horax held in the mouth Lime water & milk &c

In Philadelphia Mercury salivates 1 out of 4 In the W<sup>est</sup>  
Indies 1 out of 12 in the yellow fever, This must be owing  
to less morbid action existing in the disease of the West  
Indies than in Philadelphia

Salivation is indicated, 1<sup>st</sup> In malignant  
fevers & such other fevers as are not remedied by other means  
2<sup>d</sup> In morbid actions of the head, Lungs Liver spleen





Kidneys &c. 3<sup>d</sup> In Diarrhoea & dysentery 4<sup>th</sup> In Syphilis  
5<sup>th</sup> In Visceral obstructions, In obstructions of the viscera it is  
often not proper to give Calomel in such doses as to produce  
salivation directly, I have generally first made the mouth  
sore thus making it act as an Alternative.

6<sup>th</sup> In old ulcers both external & internal which have resisted  
the powers of other medicines 7<sup>th</sup> In convulsive diseases as Tetanus &c.  
Salivation is forbidden.

1<sup>st</sup> In highly excited states of fever, 2<sup>d</sup> In low exhausted  
states of fever, 3<sup>d</sup> In children under 6 years old, 4<sup>th</sup> In  
person above 60, 5<sup>th</sup> In those having many decayed teeth  
6<sup>th</sup> In diseases tending rapidly to a crisis, Mercury never will  
produce gangrene, when the system is sufficiently reduced  
or after a salivation has taken place. It is to be regretted  
that mercury is such a loathsome medicine, but man  
first sinned with his mouth, & to his mouth medicines  
must be administered to remove that disease or sin.

Rhines, These act by depleting from the Nose  
& are of two kinds, 1<sup>st</sup> Those which deplete from the Nose  
without sneezing, such as sal Ammoniac, Serbithmin,  
2<sup>d</sup> Those which deplete from the Nose & produce  
sneezing as Tobacco.



History of the American Republics  
The American Republics are situated in the Western Hemisphere  
The first of these is the United States of America  
The second is the Republic of Mexico  
The third is the Republic of Central America  
The fourth is the Republic of Colombia  
The fifth is the Republic of Venezuela  
The sixth is the Republic of Ecuador  
The seventh is the Republic of Peru  
The eighth is the Republic of Bolivia  
The ninth is the Republic of Paraguay  
The tenth is the Republic of Uruguay  
The eleventh is the Republic of Argentina  
The twelfth is the Republic of Chile  
The thirteenth is the Republic of Brazil  
The fourteenth is the Republic of Cuba  
The fifteenth is the Republic of Haiti  
The sixteenth is the Republic of Santo Domingo  
The seventeenth is the Republic of the Dominican Republic  
The eighteenth is the Republic of Puerto Rico  
The nineteenth is the Republic of the Virgin Islands  
The twentieth is the Republic of the Cayman Islands  
The twenty-first is the Republic of the Bahamas  
The twenty-second is the Republic of Barbados  
The twenty-third is the Republic of Trinidad and Tobago  
The twenty-fourth is the Republic of Guyana  
The twenty-fifth is the Republic of Suriname  
The twenty-sixth is the Republic of French Guiana  
The twenty-seventh is the Republic of the Netherlands Antilles  
The twenty-eighth is the Republic of the Dutch Caribbean  
The twenty-ninth is the Republic of the British Virgin Islands  
The thirtieth is the Republic of the United States Virgin Islands  
The thirty-first is the Republic of the Northern Mariana Islands  
The thirty-second is the Republic of the Marshall Islands  
The thirty-third is the Republic of the Micronesia  
The thirty-fourth is the Republic of the Palau  
The thirty-fifth is the Republic of the Federated States of Micronesia  
The thirty-sixth is the Republic of the Republic of the Philippines  
The thirty-seventh is the Republic of the Republic of Indonesia  
The thirty-eighth is the Republic of the Republic of Malaysia  
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The sixty-third is the Republic of the Republic of San Marino  
The sixty-fourth is the Republic of the Republic of Monaco  
The sixty-fifth is the Republic of the Republic of Vatican City  
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The sixty-seventh is the Republic of the Republic of Portugal  
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The eightieth is the Republic of the Republic of Monaco  
The eighty-first is the Republic of the Republic of Vatican City  
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The ninety-second is the Republic of the Republic of Hungary  
The ninety-third is the Republic of the Republic of Switzerland  
The ninety-fourth is the Republic of the Republic of Liechtenstein  
The ninety-fifth is the Republic of the Republic of San Marino  
The ninety-sixth is the Republic of the Republic of Monaco  
The ninety-seventh is the Republic of the Republic of Vatican City  
The ninety-eighth is the Republic of the Republic of Andorra  
The ninety-ninth is the Republic of the Republic of Portugal  
The hundredth is the Republic of the Republic of Spain

*Expectorants* are 1<sup>st</sup> *Demulcents* as flax seed Tea  
Horse radish &c

2<sup>d</sup> *Emetics* or nauseating medicines as Iguills &c

3<sup>d</sup> *Volatile alkali*, salts, smoke of tar, bees wax resin &c

*Expectorants* are indicated in *Pneumony*, *Catarrh*,  
*asthma* *Phthisis pulmonalis* & here the 2<sup>d</sup> & 3<sup>d</sup> class should  
be used also in weak morbid action of the Lungs here  
the 3<sup>d</sup> class is required

*Emmenagogues* should be administered according  
to the action of the system In diseases of great morbid ac-  
tion they should be used & there refrained from but in  
diseases of weak morbid action *chalybeates* & exercise  
should be used In this last case I have generally used  
steel which I believe fails only when given inprop-  
erly *Aloes* & *Madder* are scarcely worth our notice as  
*emagogues*

*Blisters* They act slowly as *Cantharides* & the Bark  
of certain trees, 2<sup>d</sup> as boiling water suddenly; They are  
indicated 1<sup>st</sup> In general diseases here the 1<sup>st</sup> are to be  
used 2<sup>d</sup> In local congestions of the head Gouls &c  
here the first class, 3<sup>d</sup> In sudden congestions, here the  
2<sup>d</sup> class is to be preferred



1870

The following rules are to be observed in the use of Blisters —

- 1<sup>st</sup> They should remain on untill they produce a serous discharge —
- 2<sup>d</sup> When applied to the Head they should remain 24 hours —
- 3<sup>d</sup> As all blisters never discharge much after the second dressing new ones should be applied if necessary —

Blisters are forbidden in great morbid excit<sup>n</sup>, 2<sup>d</sup> In weak morbid excit<sup>n</sup>, 3<sup>d</sup> In habits highly irritable, & person liable to suffer from stranguary 4<sup>th</sup> In Pregnancy —

There appears to be a blistering point in morbid excitement, above or below which it is improper to blister, & this point must be discovered by the pulse —

Issues are medicines to lessen the quantity of fluids gradually as setons, caustics, perpetual blisters &c. Issues are indicated, 1<sup>st</sup> when the gradual abstraction of morbid excitement is required 2<sup>d</sup> In local congestions, 3<sup>d</sup> in cutaneous eruptions of the face or parts necessary to motion, In suffocated excitement medicines should be applied gradually, blood taken in but small quantities at a time, Cold water applied externally is always improper in the absence of heat, In suffocated excitement, there is very little; Issues act directly or indirectly by equalizing morbid excitement & when the system has been habituated to their use they should be relinquished with caution, I have thus mentioned



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The course next to the D<sup>o</sup> class viz,  
Stimulants. — There, I shall divide into stimulants properly  
so called or those which remove morbid action by exciting a  
stronger & less diseased action in the affected part or in some other  
part of the body by exciting it in another part of the body less  
essential to life, & into tonics or other medicines which pre-  
vent the recurrence of disease by removing predisposing ~~excit~~  
debility; Both of these act by converting excitability into excit<sup>ion</sup>  
when they cure by obstructing any of the fluids of the body, wine  
Opium, are diffusible stimuli, but all stimuli are more or less  
difficult in their action on the whole system; here I exclude  
those sedatives which destroy irritability or morbid action  
by force such as *Cerussa acetata*, *digitalis* & *measura*, which  
resemble more the breaking down a door to get into a house  
than simply turning the key. But depletion should be used  
in most cases in preference to such remedies, altho depletion  
is certainly useful in hemorrhages, yet sugar of Lead often  
does good after it fails, In this case the Lead acts by lessening  
the excitability; Consumption when cured by Opium  
& *digitalis* often returns —

Stimuli to reduce great morbid action acts as exercise & Ca-  
lour by reducing excitability, but in general they do





great violence to the system & are much inferior to depleting remedies. They act more safely in muscular than in arterial diseases. Some diseases are however beyond the depleting remedies, as the tetanus & the morbid grades of Eclampsia fever. Here the Opium & Bark cure by prostrating the system below the morbid action and thereby wasting excitability. A question now arises when are stimulants to be used. This must be regulated by the stage of the disease, the state of the system & more particularly the pulse. When they occasion heat, a frequent & slow pulse they are improper. If they produce none of the above symptoms, but in part a slowness & fullness, they may be used with advantage. & the saying there is a time for all things is in nothing so striking as in medicine. — The manner of giving stimuli is in rotation, I once cured a case of tetanus by giving wine 1<sup>st</sup> Bark 2<sup>d</sup>, Opium 3<sup>d</sup> Brandy 4<sup>th</sup> & water & then the wine again, but more of this hereafter.

Of those Medicines which remove morbid action by exciting a stronger & less diseased action in the affected or some other part of the body. Stimulants are of this class & should be preceded by reducing the system below their by means of depletion, But notwithstanding this may hold good as a general rule yet there are two exceptions to it.





1<sup>st</sup> When it is necessary to destroy irritability in hemorrhages by  
sach Lat, & in other cases by digitalis, 2<sup>d</sup> When we use dissipate ex-  
citability as in Tetanus, when excitability is accumulated Begin  
with small doses of stimulating medicines & observe at the same  
time to defend the system from other stimuli as Light conversa-  
tion &c &c For there by hurrying on the system will defeat  
the intention of the medicine, In pleurisy after bleeding once  
or twice endeavour to suspend the cough by Opium, but when  
there is no accumulation of excitability, begin with large doses  
of stimulating medicines, after depletion especially in Chron-  
ic diseases & in the beginning of fail, which attacks excitabil-  
ity nearly exhausted by indirect debility.

Do not combine many stimulating medicines for they  
generally act best in a simple form, but to this there are  
some exceptions, Use them in succession or rotation for the  
system for the system will often become insensible to one  
stimulus, whilst another of a weak action will affect it —  
Liquid Laud, when Opium & V have failed, Dr Dewitt  
tells us that a pill of Opium made 6 months before will  
sometimes do good when a recent one would do harm, it is  
probable that no two medicines even of the same class  
exert precisely the same effects, The stomach will some





sometimes near Luapra Quot columbo & vice versa, Chron-  
ic diseases as in Intermittants & require stimulants, Frequent  
change change the place to which stimuli are to be  
applied, When the stomach has been inured to stimuli  
apply them to the skin, which still retains its sensibility  
as blisters to the abdomen &c. In shewing Tobacco only on  
one side of the mouth, that side is much easily affected  
by it than the side that is accustomed to it, Even when  
snuff is taken into the nostril one only at a time, it becomes  
more at length insensible to the effects of the snuff than  
the other

Opium when ineffectual in large doses in the stomach  
is frequently active when thrown into the intestines  
Bark after having become inert in the stomach is of-  
ten active when thrown into the bowels, Generally when  
a medicine is exhibited per Anum the dose should be  
quadruple; or externally applied to the skin in the  
form of a quilted jacket, Electricity when applied to  
the breast of a cock is said to revive & cure the effects produ-  
ced upon the head by it, Opium obviates the effects of Opi-  
um when applied in another manner from the first, Mer-  
cury obviates the effects of Mercury thro' the practice the





Be not safe — Having admitted that there are specific stimuli —  
If we are obliged to admit an indefinite number of them,  
And those that are feeble from the various changes of the irritability of the system, An Emetic when the stomach has lost its <sup>sensibility</sup> ~~irritability~~ is inert, because its muscular fibres do not vibrate in unison with the medicine, weak stimuli sometimes act when stronger fail, Strong Purges destroy the contractile powers of the stomach, when weak ones act by assisting the recovery of that power, I once knew a Lady who could not hear the noise made by the firing of a cannon, but could distinctly hear the noise made by pushing a pin thro' a piece of paper, I also knew a Gentleman with hemiplegia, who was not in the least affected by sticking pins into the affected part, but by touching it lightly by a feather, would immediately be convulsed —

In all chronic cases stimulants should be given in the morning, because at this time the excitability is more accumulated, Barron Lomborg says there is a certain relationship kept up between the different stimuli according as they are given in succession, Alkali for instance, will restore the excitability of the stomach when dissipated by acids, but acids will not restore it when dissipated by alkalis, Do the alkalis





act by exciting the dormant faculty of the stomach?

*Of Medicines* which remove morbid action in a part by exciting it in another less essential to Life,—  
Many Physicians do this without knowing this, a Head ache is cured by a diarrhoea, Natural Hemorrhages by U, Morbid in the viscera by blisters, Dropsy by diuretics acting upon the kidneys, Morbid action of the Lungs by Emetics acting upon the stomach, Apoplexy by throbbing on the back, the morbid action being thus transferred, Hearty tells us that he gave a dog Nux Vomica & then severely whipped him, & the nux Vomica had no effect, owing to the impression on the skin predominating in force over that of the stomach, Observe now that there is but one impression felt among those of an unequal force & that is the strongest, 1<sup>st</sup> you must reduce the system below the stimulating point, that the medicine may at once predominate over the remaining morbid action. Observe again that there are exciting, depleting, blistering & sweating points which it is necessary for the Physician to know, as that a mariner should know the signs that discover a port —

2<sup>d</sup> Take care that the part in which you excite morbid action be less essential to Life, than the part in which



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you intend to remove it, To this there are exceptions, In consumption it is sometimes proper to create morbid action in the brain by means of Opium or spirits, Here it is better to bring on derangement in the brain, which is more essential to life than the Lungs, than to let disease be stationary in the Lungs doing more irreparable mischief. Intoxication sometimes entirely removes consumption, In convulsive Epilepsy delirium has been induced by opium with advantage; In tetanus is often cured by drunkenness, In Pleurisy it is most essential to life put a blister on the affected part, In fever it is sometimes necessary to bring on hunger to such a degree as to endanger life, in order to accumulate excitability in the stomach —

3<sup>d</sup> To prevent unsuccessfull practice enquire into the peculiarities of the Patient, his habitual diseases &c. But in dangerous cases little attention is requisite to the effects of the medicine  
4<sup>th</sup> When the second morbid action which is excited becomes languid a third must be excited, because pain from habit becomes pleasurable —

5<sup>th</sup> To attend to association in diseases, instance, we stimulate the feet in Gout because they are more predisposed to disease when Gout is flying about the body it is proper to stimulate the great toe which has already been attacked by it in pref



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nuence to the other, when we wish to induce regular gout by soliciting it to the extremities,

In Stimulants I include the passions such as anger & terror, but the agreeable passions most often cure diseases, by preponderating over painful impressions, I know a man who could relieve himself of pain at pleasure from the Rheumatism, by shaving, Pronouncing popular names, words & events sometimes relieve pain, Hope & faith have sometimes wonderful effects in curing diseases

Of Medicines which prevent the recurrence of diseases by removing predisposing & succeeding debility, These I shall touch and the rules necessary to be observed in their exhibition are the following

1<sup>st</sup> They are always to be exhibited in less doses than are sufficient to overcome the morbid action

2<sup>d</sup> In your choice of tonics always prefer such as are double in their operation, as aliment, in the use of which observe the following rules

1<sup>st</sup> Always prefer that which is agreeable to the stomach & stomach, & tho' there should be no appetite, still continue to give the aliment, for who would wait for an appetite to give medicine

2<sup>d</sup> Recommend to debilitated persons to eat 5 or 6 times a day & once or twice at night if sleepless, Debility is constantly attended with considerable relaxation of the Blood vessels





for the stomach of a debilitated person is like a school boy, who if he be not busy is apt to do harm, a full meal like poison should be avoided.

3<sup>d</sup> Accommodate the diet to the excitability of the system.

4<sup>th</sup> Solid food should be preferred, as it makes the most flesh, while Liquid food makes the most fat.

5<sup>th</sup> The less nourishing is preferable to that which is more so in cases of debility, Salt meat is preferable to fresh upon that account.

6<sup>th</sup> There are cases in which one kind of food is only preferable, a gentleman in this city affected with violent stomach complaints was perfectly cured by boiled turnips alone.

Boiled Carrots are said to cure the asthma, Bread & milk the Gout, a diet solely of fish has cured certain Inflammatory diseases, The stomach prefers a homogenous food, Beef & mutton has cured dyspepsia & oysters visceral obstructions.

7<sup>th</sup> a diet by weight & measure of the same aliment cures diseases, Dr Taylor was cured of Epilepsy by the milk of a cow fed in summer upon grass & in winter upon hay, but was disordered as soon as he fed upon the milk of a cow that was fed upon mixed grains.

8<sup>th</sup> Uniform hours in eating are strictly necessary, sooner after leaving bed in the morning the better.





When it is necessary to confine a Patient to a particular diet we must not give it up too soon, because it disagrees with his stomach at first, after a while it & the stomach may become naturalized to each other —

TONICS comprehend 3 kinds of drinks, these are 1<sup>st</sup> Malt liquors, 2<sup>d</sup> different wines as Madeira sherry &c. 3<sup>d</sup> Low wines as Malaga, Port, Champagne & cider, You see I do not include ardent spirits in this class, for a man had better die than use this detestable, & ruinous remedy. In chronic cases they are always injurious, as their use will finally create a use for them which when confirmed by habit nothing can eradicate —

4 Cold & warm baths remove debility of weak morbid action, The warm bath should be used between 12 & 10 only. — Temperature of the Tepid is 96, the warm 104 & the Hot bath 108 of Fahrenheit's Thermometer, The warm bath is very much used in Italy. — The cold acts indirectly as a tonic abstracting heat & accumulating excitability & dressing after the cold bath converts the excitability into excitement, to be the more effectual it should be used after the warm bath. —

I shall now make a few observations upon Cold —

1<sup>st</sup> It should be preceded by the warm bath —

2<sup>d</sup> It should be temperate, when the water is cold it should



For the purpose of the investigation, the water is only to be used for the purpose of the investigation.

warmed & vice versa

3<sup>d</sup> It should be used, 2, 3 or 4 times a day.

4<sup>th</sup> In a warm room during the Winter

5<sup>th</sup> Exercise & friction should succeed it

5 EXERCISE holds a great rank in the class of Tonics as obviating simple debility & may be divided into ~~simple~~ & passive & active, The former includes friction rocking in a cradle chamber house swimming, sailing &c.

The latter are walking <sup>& labour</sup> riding on horse back is partly active & passive

The following are the rules to be observed in the use of Exercise  
1<sup>st</sup> In great debility first begin with passive as Friction, the effects of which are wonderful in overcoming debility, It increases the action of the blood vessels & muscles, also secretion as well as sensation, The Chinese are remarkably fond of this remedy & carry it so far as to have frictioners as we have barbers, The exercise of the hands in shuttle cock, the good effects of this we see daily in taylor, Shoemakers, Ladies &c. swinging sailing & riding in a carriage are the next stage of exercise as they occur in the open air, Swinging is useful when the patient is not able to take other exercise, It was recommended by Dr. Hoggarth & Smith in consumption, I cured one case of this completely by swinging, Sailing creates a disease of the Stomach & thereby





carriers of the seeds & effects of the primary disease, It also keeps  
 up a perpetual conflict between the passions, Sailors are gener-  
 ally healthy when the vessel is kept clean, The balloon only used  
 in time of war may be used in debility, Partial exercise as before  
 observed removes debility, A person held one hand in water at 62.  
 & by exercising the other it rose to 68 after it had risen only 64  
 by the warmth of the house Riding on horseback is highly recom-  
 mended in Consumption, It expends less excitability than walk-  
 ing, which may be used in cases where it is necessary to expend  
 much excitability, 2<sup>d</sup> Avoid all fatigue, 3<sup>d</sup> Accommodate it to  
 the state of debility 4<sup>th</sup> The same rule may be exercised in the  
 use of exercise as of eating, never take too much at a meal as it  
 renders you unable to take more, immediately afterwards with-  
 out injury, Patients are often in this respect ungovernable,  
 5<sup>th</sup> Exercise should never be prescribed before one is fast or  
 immediately after a meal, Different kinds of exercise suit  
 different kinds of diseases, as exercising the muscles of the back  
 in Nephritis, Labour of the arms best in Pulm Consumption.  
 6<sup>th</sup> Debility is to be removed by change of occupation—  
 7<sup>th</sup> Travelling, it removes from the inquiries of friends after  
 the health of the sick which inquiries often do harm, I have  
 known a return of an Intermittent induced by a friend





asking the Patient 7 hours after the usual return of the fever whether he had escaped, travelling is an agreeable & usefull stimulus from the exercise which attends it, the change of air & the succession of new objects, 8<sup>th</sup> Change of climate & of former associations are usefull in nervous diseases, as Hypochondriasis Hysteria & C. Galesy Stone & even Convulsions are cured by it, Sheep are benefited by a change of climate, and Men prolong their lives by the change, especially old people when it is from a colder to a warmer one, 9<sup>th</sup> An uniform climate for invalids tho' different from the one they have been accustomed to is of considerable service to them to them, In certain cases of debility a warm room from 70 to 79 day & night should be used In order to keep the room from becoming too warm, a vessel of water should be kept upon the stove which will evaporate at a certain degree of heat & thereby cool the room by its vapour, 10 change of diet, dress & mansion is frequently of great service.

11<sup>th</sup> Cheerfull company & agreeable reading obviate debility

12<sup>th</sup> advise convalescents to go to bed early at a fixed hour & to rise at the same hour every morning

13<sup>th</sup> Strictly forbid their going into the night air or moist weather or gratifying the venereal appetite

14<sup>th</sup> Accommodate their dress to the weather, their dress





Had better be 3 degrees too hot than one too cold, It should be loose, there should be no ligatures, flannel should be worn next the skin & they should sleep between blankets —

15<sup>th</sup> They should sleep upon a mattress, as a soft bed induces indolent indolence & alternately on the sides but never upon the back in indolence, because the night mare frequently attacks in that posture —

Of the Medicines which remove debility, of these the Bark & steel are the best in spider debility, Strong drinks sometimes cures diseases by knocking out excitability, rousing dormant excitement & afterwards locking it up in the muscles. The Indians when fatigued will rest themselves by carrying a large log or two, a mile or more & then laying it aside — Mineral Waters, They act as tonics by the ingredients they contain, by the degree of temperature & from the quantity taken in at a time, Purging mineral waters are not tonics consequently I am not speaking of them here, mineral waters cannot be imitated by art, they often do harm at first, but after a while do much good, Mineral waters do great harm in increased arterial action, but in Nervous Bowel complaints &c. they do much good —

Marimony is also a powerful stimulus —





Sea air is also a stimulant & may be prescribed with the same precaution as the mineral waters.

Mercury in obstinate obstructions, from weak & languid action is one of our best remedies, even when the more agreeable fail, In the use of tonics always attend to the state of the system, for debility is the next door neighbour to disease & sometimes even worse than disease, There is a debility below a certain point, where the patient is unable to walk, as in syncope, Palsy, a proplexy, in which excitability is highly accumulated, here gentle & weak stimuli are proper; A few drops of cold water, friction, smell of burnt feathers &c. will often do more service than the most violent medicines, Friction is generally better in Palsy than the more powerful stimuli.

When excitability & excitement are nearly exhausted as occurs in the first stage of malignant fevers & the last in chronic diseases, the most powerful stimuli are necessary, as Caustic red hot iron, boiling water, fire, coal &c. But when a total obstruction of the part takes place, which in animal matter is called gangrene, the stimuli should be applied around the part as Turpentine, hot poultices and particularly — Blisters &c. with the Internal use of Bark wine & Opium



*[The page contains faint, illegible handwriting, likely bleed-through from the reverse side.]*

**Tonics** are exhibited, 1<sup>st</sup> by the mouth 2<sup>d</sup> by Injection  
3<sup>d</sup> by the nose 4<sup>th</sup> externally, The mouth is the best channel  
for medicine. — Opium may be given by the way of glisten, in  
this way it is generally necessary to administer 3 times the quan-  
tity of that taken into the stomach to be effectual, Sp of  
Camphor may be applied to the nose, Dr. Chi'oni, with Cam-  
phor & opium applied externally, cured obstructed menses  
with digitalis dropsy & with bark & spirits all kinds of fevers  
This can the friction of the hand the principal means of  
cure, I have known Opium & Camphor dissolved to act like  
a charm in pains of the knee when applied externally to  
the part, Thosmakers wax & Burgundy pitch when applied  
to the soles of the feet cure head, Spirits to the abdomen, re-  
lieve cholic, sweet oil, arthites, & when rubbed all over the  
body has cured malignant fever, a warm hand has relieved  
Rheumatic pains, The manner in which these medicines act  
1<sup>st</sup> by Friction, 2<sup>d</sup> by exciting a determination of the fluids to  
the part, 3<sup>d</sup> By sympathy. sometimes they all three combine  
The parts to which these medicines may be applied are  
the stomach, belly inside of the thighs, near the perineum  
soles of the feet, arm pits, back bone & anus. —  
There are some who have a susceptibility to one class of Med





1871. I have been thinking of you very much lately. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you. I have been thinking of you very much lately. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you. I have been thinking of you very much lately. I hope you are well and happy. I have been very busy lately, but I have managed to find some time to write to you.

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veins in consequence of an Idiosyncrasy.

Of Medicines which remove diseases by abstracting redundant & foreign matters from the body & which offend by their quantity & quality, These matters are mucus worms &c. & the medicines, some of which are purges diuretics anthelmintics, diobstruents sicilagogues &c. of which we have spoken of before.

Of Medicines which remove diseases by mixing with & thus destroying matters which offend by their quality or quantity thus, 1<sup>st</sup> Magnesia destroys acids in the stomach by uniting with & neutralizing them, 2<sup>d</sup> Bilious & renal calculi, by lime water vegetable alkali vitrollic acid &c. The Itch is cured by Mercury & Sulphur, The venereal disease by Mercury, Demulcents are used to allay cough catarrh &c. They are flax seed tea decoction of Bran Sulphur Mercury &c.

Of Medicines which cure diseases by removing obstructions These as I said before are not the cause but the effects of disease, They produce disease by reacting & occur most frequently in the visceral & lymphatic glands, thus we see morbid debility, disease & obstructions at the same time, These medicines are certain tonics called deobstruents as Bark steel, Mercury Arsenic, Cold Bath, external applications, Local Bleeding, Fear acts powerfully & I think it is in this way that the voy



*[The text on this page is extremely faint and illegible, appearing as a series of light grey smudges and ghosting of words. It seems to be a continuation of a letter or a document from the previous page.]*

at touch acts, I will conclude this subject with observing that obstructions are the effects of acute or chronic Inflammation & where Of has been used in time they rarely occur.

Of Medicines which are supposed to cure diseases by changing the quality of the fluids or the texture of the solids, These are the gasses about which I am but little acquainted & as Dr. Beddoe who once said so much about them, has now rejected them, I think we may regard them as useless.

Of the Medicines for relieving Pain, as pain is the effect of disease, the remedies should be proportioned & accommodated to the state of the system, Pain is sometimes a remedy & should not be relieved, 1<sup>st</sup> Opium in large doses relieves pain by inducing indirect debility & thus reducing the system to the sleeping point. In giving large doses, care should be taken, that the seat of the disease or pain, be not in a part where effusions are dangerous as in the Brain &c., 2<sup>d</sup> Of relieves pain as in Pleurisy, Head ache Joint Rheumatism, 3<sup>d</sup> Fasting relieves pain, Dr. Priestly informed that a criminal that was put upon the torturing machine, bore the pain with fortitude, in consequence of having fasted 2 or 3 days before, Those who die of famine never feel pain after the first 4 or 5 days in consequence of losing their sensibility at this time.





1<sup>st</sup> Cold water eases pain, when there is great morbid action.

This was often experienced in the yellow Fever of 93 when given by way of injection, it acts as a charm in hemorrhoids.

5<sup>th</sup> Warm water acts as an Anodyne in cases of morbid action. Pediluvium often relieves a light head ache.

6 Demulcents relieve pain as Poultices, sweet oil, friction acts powerfully in relieving pain, A sheep skin or the maw of a cow frequently cures Cholera in Children.

7<sup>th</sup> Cold water relieves pain when long applied but increases when suddenly applied.

8 Cheerful company, hallowing gnashing the teeth & crying all mitigate pain. Women bear Child with much better by crying.

9<sup>th</sup> Fear chases away pain when accompanied with great morbid action.

10<sup>th</sup> Whipping relieves pain, for instance the dog that was whipped after taking a large dose of Nux Vomica, by Dr. Hordley. He also gave Arsenic to another which was also whipped & it is covered no symptoms from the Arsenic.

11<sup>th</sup> Sounds relieve pain, I once heard of a Man who was relieved of the pain of the Gout, by making his servants sing very loud. It is in consequence of this that we seldom see many children cry at the same time, The child that cries the loudest



10. The first section of the paper is devoted to a description of the various forms of the disease, and the manner in which it is communicated. It is divided into three parts, the first of which describes the disease in its early stages, the second describes it in its more advanced stages, and the third describes it in its final stages. The second section of the paper is devoted to a description of the various forms of the disease, and the manner in which it is communicated. It is divided into three parts, the first of which describes the disease in its early stages, the second describes it in its more advanced stages, and the third describes it in its final stages. The third section of the paper is devoted to a description of the various forms of the disease, and the manner in which it is communicated. It is divided into three parts, the first of which describes the disease in its early stages, the second describes it in its more advanced stages, and the third describes it in its final stages.

Generally silences the rest, Their pain being in a measure relieved  
12 Employment of Body & mind, General Kosciuszko relieved  
himself of pain by turning himself round.

13<sup>th</sup> By Cupping.

14 Cold water when pain proceeds from great thirst.

15<sup>th</sup> Sulphur when pressed between the fingers cures muscular  
spasm mechanically.

16. Metallis or other sharp pointed instruments.

17 Animal Electricity & Magnetism.

18 Counting 100 Backwards.

The next and last article in our Therapeutics, is the means of  
obtaining Longevity. This is not foreign to our subject, In Life  
there is a continual tendency to death & Longevity is only obtain-  
ed by accommodating excitement to excitability, or the stimu-  
li which support life to excitability. The same rules which  
~~prolong~~ life do not answer in all cases, but we are to be  
regulated by the different states of the system, Let clothing  
diet drinks amusements Exercise &c. be accommodated to the  
habits & state of the system as varied by age &c.

I cannot dismiss this subject without expressing my regret  
that there are so few books which are not written empirically.  
Few are written to accommodate remedies.



12. The importance of early habits of exercise  
in the formation of the body.

13. The importance of early habits of exercise  
in the formation of the body.

14. The importance of early habits of exercise  
in the formation of the body.

15. The importance of early habits of exercise  
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22. The importance of early habits of exercise  
in the formation of the body.

23. The importance of early habits of exercise  
in the formation of the body.

to the different states of the system. Hence the many contradictions in them, Few medicines act alike in the same disease at different times, thus we see Opium at one time relieves pain and at another increases it, it is thus with all medicines, In short medicines are only relatively good, that is they only do good when suited to the different states of the system. —

When I hear that *U* is prescribed in Fever or in Cynanche Trachealis, without attention to the state of the system. —

I feel as if I was listening to regular Cured Quackery. Such Physicians remind me of the Bermudian Sailor who on his passage threw shingles into the sea, in order to find his more easily back, as well might we expect, that the Alphabet when jumbled into a box would fall out in the form of an Epic poem as that medicines would cure diseases when thrown into the system, without any regard to the symptoms & stages of the diseases, or in short to the state of the system, Here Gentlemen we take leave of Therapeutics & come next in order to the fourth & last subject viz — The Practice of Medicine. —



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# D. The Practice of Medicine

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Gentlemen

We come now to apply the Principles laid down in our Physiology, Pathology & Therapeutics, to the practice of Medicine, This is the most important part of our science, It is that point to which all our pursuits in the science of Medicine are directed & happy is he who from the principles laid down deduces a rational & successful practice. —

The question that first arises is what management in diseases is the most proper? It has long been a practice to divide them into classes orders &c, this is what is called nosology, This mode of division was first suggested by Sydenham, it was followed by Cullen &c But notwithstanding I received my education in a Nosological school, I have long since rejected it, because the experience & reflection of many years, have informed me that it led to many errors in medicine. —

1<sup>st</sup> Nosology is incompatible with Anatomy & Physiology

2<sup>d</sup> Diseases cannot be divided into classes &c like animals & vegetables on account of their several changes, for we often see one disease run into another, from predisposition, time, Climate





season &c, 3<sup>d</sup> It is incompatible with the seats of diseases which frequently change, The yellow fever in a few days, often changes & occupies different parts of the system, I once attended a Lady in this disease in which it first appeared in the bowels & as Nosologists, would term it Enteritis, then in the stomach Gastritis & lastly in the Liver Hepatitis of which she died, Many diseases situated in dissimilar parts exhibit the same symptoms, Pain is often situated in a part remote from disease & pain has destroyed life, when dissection has shown any disease at all. so here you see Nosologists would have three different diseases, but that would be erroneous for there was but one disease & that morbid excitement. As well might we attempt to divide the rain which falls on the hills as that which falls in the valleys as attempt to divide morbid Excitement.

4<sup>th</sup> It is incompatible with the causes of diseases, since debility is only a predisposing cause & morbid Excitement the proximate cause & the same exciting cause beings on different diseases, Disease like fire is an unit, let it be brought on by what cause it will, for fire is the same let it be produced by flint flame &c.

5<sup>th</sup> It is incompatible with the proximate cause, namely morbid excitement





which produces different degrees of the same disease as Palsy  
Apoplexy, Asphyxia &c. I shall presently show Nosology to be in-  
practicable, It is incompatible with the characters of Epidemics —  
Epidemics sometimes blend two or three diseases together, Sydenham  
mentions all diseases succeeding the prevalence of the small pox  
did homage to it, The chronic fever of the fall frequently blends  
itself with the pleurisy of the winter, An Inflammation of the  
Lungs, is precisely the same thing whether it be induced from  
pout or arises from cold, & requires the same remedies to cure it  
Now a Physician who would not believe in the unity of disease,  
will an Inflammation arising from cold, & the other, are two  
distinct diseases, requiring different modes of cure —

6<sup>th</sup> Nosology is contrary to truth, this I can show from errors  
arising in Cullen which leads to incorrect & improper treatment  
It dooms our domestic animals to death who are unable to des-  
cribe their diseases —

7<sup>th</sup> It is Injurious to the Practice of Medicine by preventing  
us from curing diseases in the forming state & directs us to wait  
till disease has put forth its genuine colour's, I once heard of  
a Physician in Virginia who was called in to a Patient &  
waited 3 or 4 days before he prescribed any thing, saying that  
the disease had not enveloped itself, showing what Clafs





to what class it belonged to, It includes the diseases of children  
for how will we tell when they can't speak, It takes no notice of  
the different stages of diseases —

8<sup>th</sup> It multiplies the names of diseases unnecessarily & each dis-  
ease must have its remedy different, For I repeat it again that there  
is but one exciting cause (an irritant) & but one proximate cause  
of disease morbid Excitement, & that the same means prevent, Gout  
& Fever, Never will medicine become perfect untill we learn to at-  
tack diseases in their forming state, For the remedies to prevent dif-  
ferent diseases are only modifications of prescriptions, for the great  
indication is the same, Here a Question might be asked, why Cal-  
omel is given in so many different diseases? Because it is effectual  
in diseases of the Lungs, Stomach, Intestines, & in fevers it cures by  
equalizing excitement.

9<sup>th</sup> It multiplies Medicines unnecessarily & does harm by  
prescribing different medicines for different forms of Morbid  
excitement, hence the origin of Lungworth, Liverworth, Spleen-  
worth, Kidneyworth, Brainworth &c

The unity of disease reduces the diseases of the Materia Medica  
to a select number which being varied in their administra-  
tion will cure every form of disease.

10<sup>th</sup> It creates unnecessary disputes among Physicians



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who often differ about the name of a disease, I once heard of a Lady  
in London who being bled was greatly alarmed at a small dark  
spot near the incision, A Surgeon was called for, who in answer  
to her Question, what is was? said that it was nothing more than  
a spot which frequently succeeded & that it would disap-  
pear in a few days, This did not satisfy her, & she sent for an  
other Surgeon who made a similar reply, & this alarmed her  
& she sent for a third, who upon seeing the spot cried out "an  
Ecchymosis Madame" gave her some trifling medicine to  
apply to the arm & departed, the Lady was then contented & af-  
terwards held this surgeon in the highest esteem, Remember  
this Gentlemen & be always ready to Ecchymose morbid excite-  
ment untill the unity of disease shall be compleatly established  
Thus Gentlemen have I convicted nosology of falsehood, Error  
strife, mischief & murder who will say any thing in its behalf  
None - then I proceed to produce sentence, Sentence is pro-  
nounced - we ought however to know Dr. Cullen's names disea-  
ses, for many people will think you do not know how to cure  
them unless you tell them some name for disease, We should  
conform so much as to speak of disease in the plural number  
Dr. Brown has made another division of diseases into  
Sthenic & Asthenic





Subject to this. 1<sup>st</sup> Because debility is not a disease, and 2<sup>d</sup> In cases of violent action, Dr. Darwin has divided diseases into those of irritation, volition, sensation & association, But as well might we divide the colour of the clouds upon a windy day; for what has volition to do with diseases when they all originate from one common cause, His principles are borrowed from Dr. Cullen & Brown and consists of a new arrangement, except on the Lymphatics which he has thrown considerable light, His facts have enriched medicine. —

I have arranged diseases as they affect particular viscera, blood, vessels &c. I hope this arrangement is less exceptional than others & that from its simplicity it will not embarrass you, — It is however liable to objections, The same disease leaps from system to system & perhaps before it is cured occupies them all Hippocrates says that diseases are a circle to which there is neither beginning nor end, It is a difficult thing so as to treat disease arrange, as to speak of it in order, The unity of disease altho' it does not require so great a memory as Nosology, yet it does not forget Idleness; on the other hand it requires very close attention to the remote predisposing exciting proximate causes of diseases & also to the state of the system for instance the unity of disease when regulated by





in the practice of Medicine attention should be 1<sup>st</sup> paid to the pre-  
disposing cause, 2<sup>d</sup> to the force of the disease, 3<sup>d</sup> to the intermis-  
sions & remissions & exacerbations, 4<sup>th</sup> to the seat of the disease  
5<sup>th</sup> to the constitution & habit, 6<sup>th</sup> to the season of the year;  
for disease in the time of any Epidemic requires a mode of treat-  
ment more or less similar to that of the Epidemic, 7<sup>th</sup> to  
the debility preceeding the crisis of a disease, 8<sup>th</sup> to the convales-  
cent state, all these considerations show that the  
practice of Medicine according to the lenity of disease re-  
quires more attention than when regulated by Nosology.  
The unity of disease places the Physician in the situation of  
a mariner who in the pathless ocean keep a steady eye upon  
the magnet needle & who has to let go his haylards, furl & un-  
furl his sails &c. hourly as occasion requires, —

Disease has been defined to be an irregular or difficult ac-  
tion performance of the functions of the body & mind, but  
I shall define it to be simple morbid action & shall divide  
them into;

Disorders as they appear chiefly & universally  
in the blood vessels & certain viscera, These affections have  
generally been called fevers by D<sup>r</sup> Cullen but very im-  
properly. —





because fever signifies heat & all fevers do not have heat, Nay in some instances there is a deficiency of heat, but principally appears, Fevers in general have morbid excitement sometimes a spasm of heat but principally appears in an irregular action or convulsion in the sanguiferous, but more frequently in the arterial system which predominates so far over the rest, that I shall call it the proximate cause of fever (for an account of which I refer you to my inquiries) There is sometimes a pulmonary fever, the aortic system remaining unaffected & the contrary, The temporal arteries sometimes pulsate violently while the arteries at the wrist have no irregular action, Fever is as well produced from a defect of stimuli as from an excess, In fevers the excitement of other parts of the body seems to be abstracted & translated to the bloodvessels, There is but one exciting cause of fever & that is stimulous, Chills precede moderate fevers only, all ordinary fevers are seated in the bloodvessels, Pleura Angina &c. & the local affections here are the consequences at not the cause of fever, It is very seldom that the arterial system is affected by being brought into sympathy from any of the viscera — being originally affected, Inflammatory fever is not the highest grade of morbid excitement in the B. vessels, it sometimes transcends inflammation, It is sometimes so violent as to leap





over the usual forms of disease & terminate directly in death. —

Fever consists in an irregular action or convulsion & induces death without inflammation or effusion. Morbid action alone, I repeat, constitutes disease & its effects are Inflammation, Effusion &c. This distinction is necessary & useful. It enables us to cure fever before either Inflammation or effusion takes place, This idea of Morbid C<sup>o</sup>. teaches us not to attend solely to the appearances of the blood, but to the state of the system &c. —

This I shall divide into three classes. —

1<sup>st</sup>. Such as affect the whole arterial system with none or with little local affections of these there are 13 states or primary forms of fever —

1<sup>st</sup>. The Malignant state of fevers. —

This constitutes the highest grade of of Inflammatory diathesis. It is known by attacking frequently without a shilly fit, by Coma, a depressed slow or intermitting pulse & sometimes by a natural slow or temperature or coldness of the skin. The Arterial system is here prostrate. It occurs in the Plague, Yellow Fever, Gout & small pox, also in cases of Pleurisy under the care of Dr. Quin of Jamaica, It is the effect of such a degree of Stimulus as to prostrate the arterial system & to produce a defect of action from an excess of force. —





(2)  
Such is the excess of force that it sometimes produces convulsions  
&c. It may be called a depressed state of Putre fever & when left  
to itself frequently terminates in Buboes Carbuncles Morbification  
abscesses &c.

II<sup>d</sup> The Gangrenous D<sup>o</sup>. This is the issue of a violent Infla-  
mmation left in the hands of Nature or accelerated by stimu-  
lating medicines, It is the effects of a higher grade of disease  
than Synochus & it is not the effect of Putrefaction as many  
writers suppose.

III<sup>d</sup> The Synochus Fortis D<sup>o</sup>. This is known by a full  
quick & round pulse without tension, The Autumnal Bi-  
lious Fever & cholera, also the gout often appears in this form

IV<sup>d</sup> The Synocha D<sup>o</sup> or common Inflammatory state  
of fever, this attacks suddenly with chills & is succeeded by  
quick frequent & tense pulse, great heat, thirst, & pains in  
the bones, joints, head side &c., These symptoms sometimes oc-  
cur in the plague Jail & yellow fever & the small pox, but  
they are the same common characteristics of Pleurisy Gout  
Rheumatism & now & then occurs in the Influenza, Measels  
& puerperal Fever.

V The Synocula do, here the pulse is small  
but tense & quick & it occurs in Chronic Rheumatism



*[Faint, illegible handwriting, likely bleed-through from the reverse side of the page.]*

4 Pulmonary Consumption,

VI<sup>th</sup> The Synochus mitris D<sup>o</sup>

VII<sup>th</sup> The Synchoïd D<sup>o</sup> This inclines more to the Synocha than to the typhus.

VIII<sup>th</sup> The Typhoid d<sup>o</sup> a low chronic state of fever & is composed of the Synocha & typhus.

IX<sup>th</sup> The Typhus d<sup>o</sup> or low chronic state of fever, this is known by a weak & frequent Pulse, disposition to sleep torpor in the alimentary canal tremors of the hands, dry tongue & some instances diarrhoea, It occurs in the Jail ship & hospital fevers, It is generally imagined that when a fever runs on 20 or 30 days it must necessarily be a Typhus; This is a mistake, there are Chronic inflammatory fevers which continue very long & requires very different modes of treatment to what typhus does.

X The Ectetic d<sup>o</sup> This differs from all the other states of fevers by the want of regularity in the paroxysms & appears to be an exclusive disease of the blood vessels, It occurs in pulmonary consumption some cases of Lues venerea, of Scrophula & of the Gout & after most other stages of fevers, The force of the Pulse is various being sometimes Synchoïd, Typhoid & typhus.





## XI<sup>th</sup> The Intermittent or Remitting F.

These are common to all the states of fever that have been mentioned, but occur most distinctly & universally in those which partake of a bilious diathesis.

XII<sup>th</sup> The Febricula d. This is that state of fever in which the morbid action of the blood vessels is so feeble as scarcely to be perceptible. It is known to the French by the name of the inward fever. These thirteen states of fever seldom appear in the simple form in which they have been mentioned, but often blend their symptoms & sometimes all appear in different times in the course of a fever. These changes are to be sought for in the changes of the weather &c.

The Premonitory symptoms of the forming state of fever are 1<sup>st</sup> Elevated but natural excitement which is known by extreme hilarity & vivacity increase of appetite wakefulness &c. the remedies are rest, gentle evacuations sometimes a small O.S. &c. It appears more frequently in children.

2<sup>d</sup> Debility this is known by a loss of appetite, giddiness, languor disposition to sweat coldness, sleepiness with distressing dreams &c. dryness, crispness of the hair, a frequent full, but not morbid pulse, no relish for Tobacco, or Coffee, wine, browns the mouth. The remedies are rest gentle stimulants



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as Pediluvium warm bath cheerfull society, Laudanum 20 or 30 drops  
with a little Martshorn, sage tea, diluting drinks, pouring cold water  
on the body has been recommended by Dr Currie, moderate exercise  
of the understanding &c.

3<sup>d</sup> Depression. This is known by a weakness of the limbs  
inability to stand or walk, lassitude dry & cold skin, distressing  
dreams chilliness, shrinking of the hands & feet, yawning a weak  
quick pulse &c. The act of undressing has excited it, even travel-  
ling in some mild fevers has rendered them mortal, The remedies  
here are rest, fasting gentle stimulans, as diluting drinks, so as  
to distend the stomach, a warm bed, going to bed should always  
be advised, as it gives the system an opportunity of equalizing  
excitement, while elevated excitement debility & depression  
microach upon disease, the system contains one of them, when the  
fever is formed. a few drops of Tinct Opii or Sp Corne Cervi  
pediluvium &c gentle evacuations, these are most proper in the  
forming state, as Purges, Emetics, Bleeding, this last should be  
moderate & confined to a few ℥ which will often destroy it in  
the forming state while larger quantities will induce it  
gentle sweats or diluting drinks, discharge of heat through the  
body by cool & cold water, Dr Jno Brown speaks of his thun-  
derbolt pill as purging & purging at the same time.





which The line to be composed of Calomel & Antim Fort only  
Besides there there are many other occasional symptoms of the ap-  
proach of fever, as a hot dry parched, but sometimes a moist skin  
breaking out of old ulcers, dimness of sight, smell like hepatic  
pleuritis, a dislike for our accustomed stimuli, as tea coffee tobacco  
&c. a crispness & dryness of the hair &c. The system is daily  
exposed to the predisposing cause of fever, The forming state of  
of fever consists of the predisposing cause, debility & a small por-  
tion of morbid action & we can frequently by attending to this  
state prevent the formation of any fever, but when formed  
can seldom cure it, The advantages therefore of attacking fever  
in its forming state are numerous, By so doing we prevent some-  
times its formation & duration, but if it is formed the skill con-  
in preventing death, Dr. Hecghorn says, when a fever is formed  
it cannot be cured, but will run into its course, here I agree  
with him & deny that fevers cure themselves, as is thought in  
G. Britain, but to this there are some exceptions, 1<sup>st</sup> Hem-  
orrhages have strangled a fever, has has occurred in the west  
indies, 2<sup>d</sup> In an attack in Cholera Morbus has produced the  
same thing 3<sup>d</sup> sweating has also, but rarely after the 3<sup>or</sup> 4<sup>th</sup>  
day, this principle testifies, 4<sup>th</sup> fear & terror have extinguished  
a fever when formed, 5<sup>th</sup> Opium in large doses, taken by



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mistake has had the same mistake effect, 6 large doses of bark, 7<sup>th</sup> a quart of wine or a pint of Spirits has destroyed, tho' I have known death from this, & Currie has cured them on the 2<sup>d</sup> & 3<sup>d</sup> & 4<sup>th</sup> days by the infusion of cold water never after the 5<sup>th</sup> On all these I shall remark that they are all dangerous, rendering convalescence slow producing obstructions & often producing death, Finally I shall observe that many fevers cure themselves, Nosology considers the forming state of fever a sacred thing, hence another source of mischief from this many headed monster.

Of the remedies for fever including the 13 primary forms of fever, when formed they consist of —

1<sup>st</sup> Such things as lessen by their abstraction of stimulus the morbid & excessive action of the blood vessels or excite them when reduced below the point of reaction.

2<sup>d</sup> Such as by acting on the stomach bowels, brain, nerves & skin equalizes the excitement of the whole system & thereby indirectly destroys a weak action in the blood vessels by imparting to them a more vigorous & healthy action.

1<sup>st</sup> The remedies which belong to the first general head are evacuations, these are, —

1<sup>st</sup> V.S. for a full account of the advantages of this valuable remedy I refer you to my inquiries in defence of V.S.



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I shall only mention here those states & circumstances which forbid its use. There are, 1<sup>st</sup> It should be used very sparingly in cases where from the excessive force of stimuli the system is prostrated below the point of reaction, of course profuse It would abstract the remaining small portion of stimuli & hasten death, 2<sup>d</sup> after the 3<sup>d</sup> day of malignant fevers if not used before is improper, as the system is below the point of reaction, The remedies here are purges mercury &c 3<sup>d</sup> In weak morbid action in the Blood vessels or what Dr. Darwin calls a tendency to contractility in the blood vessels as in weak bilious fevers or Typhoid Pleurisy, The remedies here are purges & then cordials, 4<sup>th</sup> In diseases of habitual downhards, It should be used very sparingly because in this case the Blood vessels are so over stretched that they cannot contract in proportion to the blood drawn, 5<sup>th</sup> Copious bleeding is forbidden in very fat people, 6<sup>th</sup> In putrid fevers, here the system is so far prostrated below the point of reaction that It is even improper in the first stages, It has been forbidden after the suppurative process has begun in Inflammatory affections, but to this rule there are frequent exceptions.

It is seldom necessary after copious expectoration has taken place in Pleurisy, but if plentifully used before, expect





toration has begun, it will cure the Pleurisy & prevent the  
expectoration, In the year 1798 in this City it was the case  
The symptoms were first raised by gentle purges after which I em-  
ployed 1/7<sup>th</sup> In diseases of external determination as in Pleg-  
mon, Angura, Tonsillaris &c without evident symptoms of suffo-  
cation, In Pleurisy after copious expectoration, &<sup>th</sup> when there  
is an alarming & dangerous symptom from the dread of the lan-  
cet, but in all these cases the pulse is the index, there are  
however some cases of ~~Hepatic~~ Hemoptysis in which I would  
not bleed altho the pulse be tense before it was reduced by  
purging. & Lastly there are some cases of Hemorrhagy with  
a tense pulse & Hepatic fever, which cannot be reduced by  
1/7. But there are some stages in other diseases in which the  
Pulse is dumb, 1<sup>st</sup> in certain morbid affections of the lungs  
of the Brain, In Malignant fevers, In chronic Inflammation of  
the Liver; But shall our estimation of the pulse be depre-  
-ed because it does not always show the disease, No Gen-  
-tlemen the mariner never keeps his eye from the compass  
tho it may vary constantly, Great skill is necessary when  
the pulse is absent or deceivies us, 1/7 is frequently necessary  
in cholick, Strangulated Hernia & Gall stones when the pulse  
is natural & I have even bled with advantage when it was





Feeble, Bleeding is either general or local, The first by the  
Lancet the 2.<sup>d</sup> By cupping leeches &c. which last are of ser-  
vice in local Inflammations as Ophthalmia.

2.<sup>d</sup> Vomits. These are forbidden, In persons subject to a  
spitting of blood, in Cephalic congestions, In fevers of great  
morbid action as Hematemesis, ruptures &c. They are usefull  
in diseases of moderate morbid action as In Pulmonary  
Consumption &c. They are more safe in children than in old  
People & more safe in old than middle aged persons. In  
Pregnancy, in persons subject to Cephalic complaints or  
ruptures they should be prescribed with great caution  
To be effectual they should be given frequently, I have given  
emetics every 2 or 3 days in the Scarlatina Anginosa  
with success agreeable to the healing. Nature sometimes  
cures diseases by Cholera Morbus & Hemorrhages as in the  
y. of 1793; The best emetics are Tart. antimon. & Spicacuanne  
where Emetics are proper the best liquids taken with them  
the better.

3 Purgers, are Indicated in fevers of high morbid action.  
these are better & more safe than Vomits, they invite dis-  
ease from other parts to the Intestines by creating a weak  
morbid action in them, They are numerous, Calomel &



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Salap, are the most proper in bilious complaints & should be given once a day. They are usefull to take off pressure from the bladder, whenever the foeces shew a disposition to pass if by the bowels in a fever, the bowels should be opened 3 or 4 times a day, or diarrhoea should be kept up 3 or 4 days, by Calomel & Rhei & if necessary Clysters should even assist. They relieve the Aorta Kidney, &c. from the pressure of foeces, They disturb the system less than purges, It is to be lamented that the prejudices of prevent our obtaining their beneficial effects, A Clyster syringe should be part of the furniture of every family, By stimulating the rectum too we drive morbid excitement from the other parts of the body, Suppositories should be used which are soap, aloes, &c. —

4<sup>th</sup> Diaphoretics. These act by stimulating, & are improper in fevers of violent <sup>morbid</sup> action. They are stimulating medicines liquid &c. Nauseating do, these are improper, we should never make a sick stomach but on the contrary relieve one, warm bath acts as a powerful sudorific, when it sweats it does good, but on the contrary when it fails it does harm, If we warm bed cloths to answer much better. — Cold bath this reduces morbid action without ~~reducing~~





ing sweat, when the heat of the body is above 100. Hot sweet oil rubbed over the body produces sweating. The great weight of bed clothes, this is perhaps the best method. The warming Pan, Bottles or Bladders filled with cold water, hot drinks covering the whole body over & breathing the Nitrogen Gas for some time Sweating should be proportioned to the strength of the patient, when in fevers nature shews a disposition to relieve herself by sweating, she should be aided by sudorifics, But here it is often necessary to precede sweating, by V and other depleting remedies sweating should be sometimes continued 24 hours & in other cases, The Patient should often change his linen when sweating, The Internal sweating medicines are 1<sup>st</sup>.  
Nauseating medicines these have seldom done much good but harm, diluting drinks these acts by lessening acrimony &c. There are many medicines which are recommended to produce sweating they should be combined with Opium.

5<sup>th</sup> Salagogues, There are Mercury & Mercury seldom salivates in any fevers, but those which run their course in 4 or 5 days it seldom reaches the mouth, The morbid action transcends the stimulus, so that it cannot - act





The Mercury cannot act, when the system is so prostrated that it cannot react, Mercury is our own remedy & happily for us it soonest has its effects. There is a certain point at which salivation should be commenced, Mercury may be either used internally or externally by friction with the ointment rubbing Calomel on the gums & fumigating. When salivation should be brought on speedily all these methods are to be used with the mercurial bath, But there have many disadvantages as ulcerating the cheeks gums & tongue, Mercury is only a medicine of necessity.

6<sup>th</sup> Blisters, are useful when the pulse is descending to the Typhoid & typhoid states, It is a good sign when Blisters lessen the frequency of the pulse & increase the strength of the body; They are the weakest of all depletions & should never be used in fevers of violent Inflammatory action. Jackson says they are improper in a hot & dry skin, recollect how they were forbid in our Therapeutics, From a review of all the substitutes for them find them all inferior to it, it does no violence to the system or senses, few even die from an improper use of it, while thousands die from a like use of Vomits purges &c. &c.

Remedies which abstract the stimulants of Heat; There are



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Cold, in the forms of cold air, water & Ice.

1<sup>st</sup> Cold Air this acts negatively in abstracting heat, It should be proportioned to the heat of the body, when it is at 100 it should be used, also it should be proportioned to the state of the system, For if 62 were agreeable in health, 50 or 48 in sickness is best, It was for this Sydenham recommended to his patients to get out of bed & walk in the cool air & if not able to be dragged out, Many persons forbore rising out of bed, Here the bed clothes should be removed so that it may have access to every part of the body.

2<sup>d</sup> Cold water, This is useful when there is great morbid action with a dry hot skin, Bruce says the natives of Mexico cure their fevers by lying in their beds & suffering themselves to be drenched with cold water, The modes of using cold water are many, 1<sup>st</sup> By applying it to the whole body, this method should not be used unless a great deal of exercise is taken with it, so as to expend excitability as well as reduce excitement, 2<sup>d</sup> Sponging the body with a sponge dipped in water, Currie recommends this way when the fever was formed, 3<sup>d</sup> Placing the hands & feet only in cold water, I have seen the happiest effects from Clysters of cold water, They operate in this way not only on the bowels but on the whole body, they act in 2 ways.



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The external application of cold water by ablution is improper, ablution is proper in the forming state of Fever, it is the safest way it arises from two theories, one the existence of morbid matter, the other of spasm of the vessels - Dr. Currie has most erroneously of - said, that whenever cold water may be applied to the body, it may be taken into the stomach, 1<sup>st</sup> In the early stages of Fever before the reduction of morbid action excitement,

2<sup>d</sup> In sweating, 3<sup>d</sup> In morbid action or congestion of the Lungs Liver, head, bowels &c. 4<sup>th</sup> where the heat of the body is very intense, water externally is very improper, 5<sup>th</sup> It is improper in the early fit of a fever & when the body is covered with sweat. It is improper in the first stages of Local inflammation.

3<sup>d</sup> Ice, This is particularly useful in affections of the head. It should be pounded & applied enclosed in a bladder, to the head or part required, or in a tin cup. On Ablution I shall make a few remarks, Dr. Cummins of Antigua recommends the use of Spirits instead of water because evaporation is much quicker induced by it. —

1<sup>st</sup> Ablution excludes all other remedies —

2<sup>d</sup> They require a regard to many circumstances which requires the attention of the Physician himself. —

3<sup>d</sup> Subject to them in fevers for I believe other applica-  
— trans





Would produce the same effects, as washing the hands feet neck face  
Head &c. It should never be used as a stimulant in low fevers, as  
typhus, for it frequently produces death, also abstinence by de-  
priving the system of its natural quantity of stimuli & should  
be proportioned to the excitement of the system, Milk, butter  
and Sp. &c. should be forbidden, diluting drinks &c. should be  
used, roasted apples, bread water &c. (see Johnsons Nurses guide  
edited by Cox,) also other remedies which abstract the Stimuli of  
4<sup>th</sup> Sound & Light by silence & darkness, Sound  
& Light should be guarded against with the utmost care, in great  
morbid action, Conversation has often done harm, delirium is of-  
ten the consequence of it.

5<sup>th</sup> of the Invigorating Passions, by moderate fear  
this has often had great influence in fever & in lessening the Pulse  
6<sup>th</sup> of motion by rest, Journeys walking &c. have fre-  
quently occasioned fever, when there is only a slight indispo-  
sition walking or any gentle exercise will cure it, but when  
indisposed during the prevalence of an Epidemic, the Patient  
should surrender himself to rest & quietness.

7<sup>th</sup> Of Acrimony, by diluting drinks & cleanliness  
diluting drinks lessen the heat of the fever & the acrimony  
of the fluids & bile, So much cannot be said of them



1<sup>st</sup> of the month of January 1841  
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They are toast & water, Barley & apple water, certain teas of which  
Rhubarb is the best, Rhamnus water, the different Jellies dissolved in  
water, dry Cherry water, &c. these should be often changed that the  
Patient may not in consequence of using any of them to long, acquire  
a dislike to them, None of these drinks should be given cold as they  
frequently produce reaction in the system & its consequences. —

Thirst should not regulate drink any more than appetite should  
food in fever, therefore when there is great thirst it should not  
be indulged, the drinks should be given in small quantities & when  
there is no thirst, we should give them even when not called for.  
Cleanliness is also very proper, the teeth mouth & skin &c. should  
be kept clean. —

**Remedies**, which direct local morbid excitement, soothe  
now inflammation & serous effusions from parts that are essenti-  
al to life, in the first degree to such as are less essential to life,  
These are all such as are mentioned under the head of Co-  
sueuts — also —

1<sup>st</sup>. Nitre, is seldom borne in gouty habits & cutaneous diseases,  
Gent, attend to this, Nitre & other neutral salts, nitre acts  
powerfully upon the stomach, which is evident from dyspep-  
sia succeeding the too free use of it, It also lowers the pulse —  
it lowers the pulse in frequency & force & its action up-  
on



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The Blood vessels is powerfully sedative, may be given in a dose from 10 to 12 gr every two or three hours, Nitro Zss & vinegar. It is an usefull application in Inflammation &c. It is not necessary that it should produce Nausea, dose from 10 to 20 gr.

2<sup>d</sup> The preparations of Antimony of which Tart Antimony is the best, it excites a revulsive action in the stomach, creates an artificial weak part, it should be combined Nitro or Antimony. It acts as a sedative without stimulating the whole system hence its great use in Peripneumony.

3<sup>d</sup> Sugar of Lead, This has been given in the Hemorrhage states of fever with great success, Sir George Baker gave it with great success in internal Hemorrhages.

4<sup>th</sup> Fox Glove, This lessens the irritability of the whole system, It should never be given in a low pulse, In the Dropsical & Pulmonary states of fever it has principally been recommended. Dr. H. has had no experience of its use, therefore can say nothing of it, It has been lately used in Lagnoscha & Lagnoschula states of fever, but I think it should never be used but with the greatest circumspection, Sweet oil externally applied in fevers of great morbid action has been of great service, this I infer from its use in Local Inflammation — Dr. Jackson tells us that the sweet applied as just mentioned, lowered the Pulse



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Nitre dissolved in vinegar has been used Dr. Stewart of this City  
has lately mentioned the good effects of ligatures in morbid action  
by stopping the return of venous blood, Dr. Stahl mentions  
the power of wakefulness "No one says he knows the effects  
of wakefulness, I have frequently witnessed the good effects  
of this & have sometimes seen a patient made delirious, Here  
before I conclude the account of remedies for diseases of great  
morbid action in which I include Synochus fortis, Synocha, Syn-  
stula, Synochus mitis, & Synochoides, I beg leave to add the fol-  
lowing Indian remedies, 1<sup>st</sup> powerful friction, Capt Cook was  
cured in one of the friendly Islands of the Rheumatism by a  
native, 2<sup>d</sup> violent labour or exertion the Indians cure mania by these  
means 3<sup>d</sup> Strong stimulating powers, They often cure Pleurisy  
by stretching the arms or swinging the arm of the affected side  
4<sup>th</sup> Hot & cold Baths, these are proper in external diseases; In  
tonic manner, Indian Constitutions, They are only indicated says  
Dr. R., in diseases which have external determination, But  
none of these are equal to V. & its auxiliaries, as Purges vomits  
&c. Before we come to treat of stimulating medicines, we will  
say a few things respecting these states of fever, where both evacu-  
ants & stimulant may be necessary, as Typhoid, Bilious  
& Pleuritic States of Fever.



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The Typhoid & Typhus creep on gradually, sometimes with feeble  
chills, the skin & edges of the tongue dry, with head ache, con-  
tinue, 30 or 40 days without intermissions, vomit frequently  
choke it in its forming state, but large bleeding, Bark & Wine  
do harm, It is sometimes best to wait awhile untill it wears  
itself completely down to a Typhus, only obviating urgent  
symptoms. — The remedies are 1<sup>st</sup> moderate Ounce or  
twice when the pulse is strong, 2<sup>d</sup> Vomits these are safer  
than if they as it were untie the typhoid net, 3<sup>d</sup> Gentle  
Purges, Nitre, Blisters, cold applied to the skin &c. & should be  
continued untill the action be nearly worn down, In short  
the remedies for the typhoid state may be summoned up  
under 3 heads viz absolute sustenance & rest, The indications are  
1<sup>st</sup> To equalize excitement 2<sup>d</sup> to excite another action, give stimu-  
lants but gentle & if they do not render the pulse slower & fuller dis-  
continue them, Jackson speaks highly of the effects of gestation  
but says that it should not be used untill the fever has run its  
course & I think very properly. —

Of the primary forms of Fever which require Stimu-  
lants, There are such as forbid depletion as 1<sup>st</sup> Malignant  
2<sup>d</sup> Gangrenous which arises from not depleting in the first  
Stage of disease or suffering it to terminate in itself



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It occurs in the small pox, pleurisy, plague, & Fever, & Gangrenous  
sore throat, This is the typhus Gravior of Cullen, known <sup>by</sup> nearly  
a paralytic state of the blood vessels, hemorrhages buboes, Carbun-  
cles, great muscular strength & pain, or the absence of both,  
absence of mind &c. 3<sup>d</sup> The low chronic state of Typhus or  
Fever. <sup>do</sup> This is the typhus mitior of Cullen, known by delirium  
coma, languid eyes, fallen jaw black tongue, & teeth, also dry  
tongue, coldness of the extremities, costiveness or Diarrhoea  
pale urine, dry skin & at the close by Typhomania & little  
cough, The Pulse has an irregular stroke, when Stimulants  
make the pulse slower & more full they do good, when they ren-  
der it more frequent they generally do harm. - This is the effect  
of debility it follows inflammatory fever, or may be primary  
& requires Stimulants. —

2<sup>d</sup> The remedies which belong to the second general head  
are stimulants, These divide themselves naturally into such as  
are stimulants internally & Externally, the internal may be  
divided into medicines & aliments, The first are all ferment-  
& distilled liquors, Before I mention them particularly  
it will be necessary to give a few rules necessary for their use  
1<sup>st</sup> We should begin with small doses of the weakest stimu-  
li & gradually increase them, 2 give 2 or 3 at the same <sup>time</sup>.



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3<sup>rd</sup> Give them in rotation 4<sup>th</sup> Constantly. The fermented & distilled  
-bed liquors are such as wine, malt liquors ardent Spts. Wine  
is a pleasant & cordial remedy & medicine is nutritious as well as  
stimulant, since it contains spirit saccharine matter, acid & wa-  
ter, the quantity of it should be regulated by the state of the sys-  
tem & quality of the wine, white wines are most proper when  
acidity prevails in the stomach, but in cases of extreme debil-  
ity the pure wines are the best such as Madeira &c. From 1 to 3  
quarts may be taken daily in most cases, Persons in health are  
much better more easily intoxicated by wine, than when they  
are much debilitated. —

Of Malt Liquors, Porter is  
to be preferred from one to three bottles may be given during the day.

Ardent Spirits these should be only used when the Pa-  
tient has been very much accustomed to them, or when a sud-  
den effect is desired from the stimulus, These last are stimu-  
lating without affording any nourishment. —

2<sup>nd</sup> Volatile Alkali, This has great effect in this state  
of fever & may be given from 5 to 10 grs. 2 or 3 times a day. —

3<sup>rd</sup> Empyreuematic & aromatic Oils, also certain  
fetid animal & vegetable substances; Of the first I will  
only recommend the Ol of Amber which is an excellent  
stimulus in the Hiccough which occurs in the low stages



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of fevers, from 5 to 20 drops every 2 hours. — of the 2<sup>d</sup> I shall only recommend the oil of mint. I have never experienced the great effects that have been ascribed to Mustk & castor, the seed the albumin Jacum &c. which were used in the ancient & superstitious days of medicines, They would universally go out of practice if Physicians knew as much as they ought of Opium tonic &c.

4<sup>th</sup> Opium, This is a sort of stimuli itself, all others may be compared to the feeble rays of a candle, while Opium may be compared to the powerful ones of the Sun, While other stimuli appear to act partially upon the different parts of the system.

Opium appears to act upon them all. It acts on the stomach in large doses producing inflammation of that viscus &c. On the brain producing hilarity &c. On the Blood vessels rendering the pulse more tense & feeble but less frequent, On the alimentary canal producing Continence, On the Kidneys & bladder promoting the flow of urine, On the muscles by relaxing spasms On the skin producing sweating itching & eruptions. —

That Opium differs from other stimulants in some respects in producing these is certain. But what two stimuli perfectly agree? They all vary in their action upon the system, thus biters act principally upon the alimentary canal. Ather & volatile alkali upon the nervous system, Spirits & Fermented





Liquors upon the Blood vessels & nerves, Oil of Amber upon the Muscular system & Opium on all; It differs from most or all of the Narcotics that act upon the Brain & nerves, it is to this I ascribe its familiar action in Inducing sleep. In a neighbouring state in the year 1769 a Gentleman took a table spoon full of Laudanum mistaking it for a neutral mixture, he was thrown into a sleep in which state he continued 48 hours & awoke perfectly well. Since the American revolution it has been used a little in Great Britain in Typhus fever. — In its exhibition the following directions are proper, 1<sup>st</sup> great attention should be paid to the pulse, 2<sup>d</sup> begin with moderate doses, 10 or 12 drops will do more good than twice the quantity, It acts in two ways 1<sup>st</sup> By raising the system to the sleeping point, this last method is dangerous in fevers, when below it & 2<sup>d</sup> by carrying the system directly to the sleeping point, 3<sup>d</sup> give increased dose according to the increase of the debility. Dr Boquet took 100 gr. of Opium & a pint of Ether in one day to cure the Cholera, In cases of strictest debility the doses should be small, Dr Sydenham relates a case of a man who died in consequence of having taken 20 drops of Laced to stop a vomiting. He had taken an Emetic & was debilitated, his excitability was accumulated. —



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8<sup>th</sup> Stimulus of the Laudanum destroyed him. 4<sup>th</sup> It should be given in small doses during the day but larger ones during the night. Because there is a deficiency of stimulus in the night while in the day there is an additional stimulus, as wakefulness. —

5<sup>th</sup> In all cases of sudden debility begin with small doses

6<sup>th</sup> It should be laid aside for 2 or 3 days after losing its effect

7<sup>th</sup> When it ceases to operate on the stomach give it by Injection with double or treble the dose. —

8<sup>th</sup> In proportion as the Patient recovers & the excitability increases the dose should be lessened. —

5<sup>th</sup> Other, This is a quick and powerful stimulant & is sometimes used with advantage after Opium has failed, in the dose of 30 or 60 drops every hour. —

6<sup>th</sup> Bark This has many advantages in fevers & acts as a stimulant, we should begin with the infusion provided it has not been used before, then with Luxams Tincture which has many advantages, by having bark & Laud combined & lastly if it should offend the stomach, Gentian or Columbo should be combined with it, which are much inferior to Bark, A Spanish physician used  $\frac{3}{4}$  of Bark a day in a case of Malignant fever, but Dr. Alpiolini tells us he found bark & Coffee ae Zi infused in 1 lb of water to be of equal efficacy



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I have substituted the following formula of Bark & Coffee each a spoon full, water  $\frac{1}{2}$  a pint from one to two table spoonfuls every 2 hours. —

7<sup>th</sup> Mercury, I have used this with advantage in these states of fever & was led to the use of it from seeing its good effects in the Typhus state of Quinche Maligna. 2<sup>d</sup> from the cure of Typhus in a gentleman from accidental salivation, & since that time from the benefit derived from it in the malignant, Gangrenous & Typhus fevers where V<sup>s</sup> is forbidden. —

8<sup>th</sup> Pure atmospherical air, not simply cold air, too much cannot be said, of this, in favour, in fevers, Its effects are wonderful in the cure of Malignant Gangrenous & Typhus state of fever. Malignant fevers are frequently changed in the West Indies to Intermittents, in consequence of removal into pure air when a removal is desired the Patient should be conveyed as quickly as possible, but when this cannot be done the following substitute should be adopted, 1<sup>st</sup> Remove the cause or causes corrupting the air & make a fire in the room, 2<sup>d</sup> the Earth absorbs contagion & poison, hence we see Cats & dogs scratch holes in the ground & breathe in them in order to get the pure air, also certain nations as those of Geneva when bit by poisoned snake dig holes in the ground with success. — Hence also





the floors of Hospitals should be of dirt, it is from this reason that the poor people are generally healthy, when fire cannot be had  
D<sup>r</sup> Campbell recommends 2 tubs to be passed into the room the one to carry off the vitiated air while the convey the poor into the room, 4<sup>th</sup> Lavoisier has a wonderful effect in these fevers, —  
D<sup>r</sup> Bruce tells us that the poor in leafsavats who lived in smoky houses escaped the Plague, 5<sup>th</sup> the deflagration of nitre or the decomposition of the Muriatic Acid by the the Sulphuric, 6<sup>th</sup> Having the bed in the middle of the room, I observed that in the Hospital during the revolution they died that were nearest the walls soonest, & bereft of its curtains, 7<sup>th</sup> that no more person be admitted into the room than that are really necessary. 8<sup>th</sup> No person should sit upon the bed side, 9<sup>th</sup> the excretions should be received into cold water & conveyed from the room as soon as possible, 10<sup>th</sup> The linen & sheets should be changed daily 11<sup>th</sup> the floor should be sprinkled with cold water instead of vinegar, because in 2 or 3 days the vegetable matters contained in the vinegar will putrify & assist in vitating the air  
9<sup>th</sup> Oxygen Gas, this has been highly recommended but I cannot say any thing from experience. —  
10<sup>th</sup> The Invigorating of the Passions & Understanding  
Anger once cured a man of typhus fever in Jamaica —



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Scars have often done the same, courage or pronouncing great or popular names, Joy from seeing absent friends good news &c have only done much service in these states of fever, a Lady in this City was once snatched from the grave by the sight of her ~~beloved~~ Lover, Hope should be inspired into our Patients, as it is that cordial which we have most under our command, Gloomy visitors should be positively forbidden, but a pious Clergyman should be admitted because his conversation will tend to reconcile the Patient to his destiny.

11<sup>th</sup> Stimulating Injections into the bowels, these have often done service & they are numerous, The most valuable remedies for this state of fever are Bark wine Opium, warm bath, The aliments include such animal & vegetable matters as are commonly used in diet, together with Gallop Lapacea Arrow root & the like. Animal food may frequently be given in a solid form to advantage, I once cured a Gangrenous small pox by indulging the Patient in this way, It acts in two ways, 1<sup>st</sup> by the pleasure it gives the patient to think that it is in his power to eat, & by its stimulus in the stomach, 2<sup>d</sup> by affording a matter for red blood & that by repetition producing of the most powerful stimulus of life. I am induced to believe that the low fevers





are often cured by animal food as ham, beef steak &c. In the cure of it two directions may be necessary, 1<sup>st</sup> do not suffer the patient appetite to regulate you, 2<sup>d</sup> great care should be taken to tempt the patient to eat, by changing his food &c. For as the appetite often exists without digestion, so may digestion go on without an appetite.

### The External Stimulants are.

1<sup>st</sup> Several of the Internal, so prepared as to be applied to different parts of the body as the nose temples limbs & the external region of the stomach & bowels, They are flannel wrung out of hot brandy, the vapour of Vinegar to the nose & mouth, washing the hands & face in vinegar, Cordials, Wine &c. given in Injections.

2<sup>d</sup> Cold & warm baths, by lotion or Infusion over the whole body, Cold bath has been recommended, but it is not safe when the system is below the point of reaction, In the Gangrenous state of fever it has hastened death, because the exertion of Undressing & dressing was too great a stimulus for the system to support, but when water is applied by means of a sponge or dashed on it may be of service, the warm bath is equally unsafe & should only be used by means of Flannels, bottles or bladders.





3<sup>d</sup> Blisters, These have been spoken of in our Therapeutics, they may alternate the symptoms but seldom they remove the disease. —

4<sup>th</sup> Cataplasms, are Salt & vinegar, flour & vinegar, Onions, Garlic, Mustard, &c. to the feet, These are often useful in the using of them we should begin with the weakest & gradually rise to the strongest, these are better than blisters. —

5<sup>th</sup> Certain applications calculated to irritate and inflame the skin, as Ether & the  $\mathcal{E}$  of Cantharides combined, which is an excellent external application, the Volatile liniment with the tincture of Cantharides. —

6<sup>th</sup> Caustics, These are often necessary to revive from a comatose state, They should be applied to the bottom of the neck.

I have often derived much benefit from them when nothing else was of service, they are indicated when  $\mathcal{V}$  is forbidden. —

7<sup>th</sup> Boiling water & scarifications, act similar to caustics, An Indian Physician has lately recommended friction with a flesh brush, all these and sometimes coals of fire have been used successfully — I know a Lady in the last stage of malignant fever, to be entirely burnt cured by being, by a candle upon the breast, Dr. Physick relates a case in which he thought a sudden cry off one of the family that she was dead cured her. A few questions may be asked to which I shall



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Answer, are sweating medicines proper in Typhus? NO, a softness  
of the skin, is favourable, but a profuse sweat is injurious, it exhausts  
the patient to no purpose, Spontaneous sweats often precede death, —  
Should patients be allowed to sit up, NO, the patient is too weak, any  
thing that is given should be poured down the throat while lying  
Clothes or other things should be used to reserve their faces, or what  
passes from them, I have known some instances in which the pa-  
tient has expired in the close stool, are cold drinks proper,  
NO, the patient frequently asks for them just before death, owing  
to the morbid action retreating to the stomach or fauces in the  
last & strong hold, Is purging proper? NO, unless there be a great  
accumulation of bile, Clysters should be used to produce a stool  
every day, but there are cases in this fever in which the retention  
of the feces 2 or 3 days is really proper, The urine should be drawn  
off by Catheters & particular inquiries should be made respecting  
its time of discharge, as the patient is sometimes insensible to  
its great stimulus. — Warm drinks are generally proper. —  
Is sleep proper? this depends upon the state of the pulse, if it be  
active, sleep may be admitted, but if faint the patient should  
be awaked every  $\frac{1}{2}$  hour, to take aliments & medicine  
where the pulse flags, I would have you to recollect that life  
is more languid in the sleeping than in the waking state



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hence, death often occurs in the sleeping state from the total abstraction of stimuli & patients generally die in the night for want of these precautions just mentioned, - I have called these the malignant Gangrenous & typhus forms of fever, but frequently change into others, I have seen the Inflammatory change into the Typhus form & the Typhus into the Inflammatory change into the Typhus form, after some weeks, In such cases frequent visits are necessary, The low nervous changes into the Typhoid, all of which at different periods require different stimuli; The forms of the Malignant & Gangrenous differ, sometimes in beginning with eruptions & sometimes with ending with them, being sometimes preceded & at other times succeeded, by the same appearances sometimes requiring weak & sometimes strong stimuli & vice versa, - In a fever at Abkinio, all died who took the Cortex peruv. while those who took a decoction of the willow bark recovered - The human body is not like an old house which can be repaired by new materials it requires different stimuli & different degrees of these stimuli; I will here boldly risk an assertion, That if a Physician could possibly be with his patient have absolute command over them, accommodated his different to the state of the system &c. that it would hardly be possible for the patient to die of low nervous fever -



[illegible]

A Judicious Bergymen used to say he first considered his congregation & afterwards accommodated his sermon to them. In like manner ought a Physician to study first the constitution of the patient the state of the system of Climate &c. & then consider the medicine proper for him. I have to observe that few of the observations of Europe on diseases are applicable to those of America. —

The condition of the system I repeat it again should govern the prescription. As fever as the sails of ships should be turned to suit the wind, I formerly thought the typhus was not an original form of fever, but I have since changed my opinion & I believe now it comes from Pandora's box stamped in the original with the form of fever. This fever may become chronic by saving life. but suppose its violence was so great as to terminate in 3 or 4 days by if it might be enabled to run the whole course of 30 or 40 days with which it was originally stamped & thereby death prevented. I filed two sailors in the spring of 1803 in the typhus, it never the less spun out to its time for 30 or 40 days. It is often I believe created by a scanty depletion in malignant & other Inflammatory fevers when I first settled in this City the most common type of fever was the Intermittent, which at last changed to a chronic, the chronic to a bilious, & the bilious to the yellow, or malignant fever. —

Many die of weakness after fever — like General Wolfe in the arms of



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Care should be taken to obviate debility succeeding disease. This may sometimes be done by a few drops of Laudanum.

### Of Convalescence. —

This is a disease consisting of debility except of excitability & a little morbid action or several febrile symptoms. It is attended 1<sup>st</sup> with wakefulness, 2<sup>d</sup> often a hawking & vomiting bile in the morning, 3<sup>d</sup> defect or excess of appetite, 4<sup>th</sup> Anasarca or swellings of the limbs. This occurs more particularly when it has been neglected. Also Ulcers, Abscesses, Coughs &c. 5<sup>th</sup> obstructions of the liver & spleen &c. 6<sup>th</sup> Ulceration parotid & inguinal glands, 7<sup>th</sup> An impaired state of the memory, defect of speech & even paraphonia. — 8<sup>th</sup> a change of the colour of the hair & even a loss of it sometimes, 9<sup>th</sup> Costiveness & a yellow colour, 10<sup>th</sup> Feverishness especially in the afternoon & pulmonary affections, 11<sup>th</sup> an impaired state of the mental faculties & even sometimes of the moral powers. —

The remedies for these are first cordial drinks as porter &c. 2<sup>d</sup> Cordial & nourishing diet, beginning with chocolate & then chicken flesh, &c. &c. The meals should be frequent and a small quantity taken at a time, 3<sup>d</sup> the usual stimuli should be applied gradually, the gratification of the venereal appetite & the exercise of the mental faculties should be avoided, all immoderate eating & drinking should be avoided. —



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A Salivation would be of service in fevers if it only were only to prevent an excess in eating by the soreness it occasions in the mouth. The sudden appearance of friends should be avoided, a change of place, dress, or to an other room is proper, for the vials, papers, pill boxes never fail to carry with them a sedative effect, Muscains tincture it is an excellent restorative, a table spoonful two or three times a day in wine, a Gentleman who caught a pleurisy in going out a running could not get well until the gun was removed from the room, a change of dress & shaving &c. gentle exercise in a carriage but not so much as to fatigue, The sight of places & objects to which we have been accustomed is as it were a removal of our contrast in life, warm clothes in the day & warm bed clothes at night &c. &c. the rules for convalescents are 1<sup>st</sup> to avoid infectious places, 2<sup>d</sup> purging, 3<sup>d</sup> sitting or standing in a current of cold air &c. I shall now enumerate the remedies for the above symptoms, 1<sup>st</sup> Wakefulness this is cured by Laudanum 5 or 10 gutt or what is better a little bread cheese & porter, 2<sup>d</sup> vomiting this depends upon the state of the stomach & may be cured by a little aliment over night 3<sup>d</sup> a defect or an excess of appetite, the first may be cured by Bitters bark Columbo, Muscains tincture Elixir vitriol & the latter by abstinence 4<sup>th</sup> anasarca or swellings of the limbs by rubbing them upwards & in the morning only rest &c.





An Ulceris Pringle recommends stimulating plaisters, —

5<sup>th</sup> obstructions of the liver, & mercury mercurial ointment may be rubbed on the affected part, 6<sup>th</sup> ulceration of the parotid & Inguinal glands, by stimulating plaisters &c. 7<sup>th</sup> an impaired state of the memory &c. these are generally difficult to remove especially of long standing, & sometimes end in fatuity, they may be sometimes removed by exercise & the cold bath, 8<sup>th</sup> costiveness & yellow skin, Calomel & Rhei &c. Regard must be had to the character & conduct of nurses who have it in their power to give or withhold the aliment or medicine at pleasure & that Physicians will do best who guides the medicine himself or if it be not in his power to do so, to choose such a nurse as may be depended on. —

The following are the consequences of fevers at sometimes, 1<sup>st</sup>... a sudden growth in the whole body especially in young people 2<sup>d</sup> an increase of fat, 3<sup>d</sup> they sometimes carry off chronic diseases Dr. Fowdlice mentions the Gout being cured by the plague, 4<sup>th</sup> remove barrenness. This is affected by the remaining debility which accumulates excitability & leaves a broad surface for the stimuli to act on, imparts vigour to the body &c. the malignant & gangrenous states of fever are often the effects of contagion of which the following are the causes viz





1<sup>st</sup> Confinement in one room, 2<sup>nd</sup> neglect in changing linen &c. &c.  
3<sup>d</sup> In not washing the skin, 4<sup>th</sup> Confined persons together,  
excrements &c. The means of preventing them & contagion are  
1<sup>st</sup> washing the linen, bed clothes & burying the excrements  
Happily however for the united states human contagion  
is scarcely known. —

### Intermittents. —

They are those forms of fever which have paroxysms, intermissions & remissions, when they are without a chill they are dumb called. Continued fevers when they pass the 30<sup>th</sup> day generally become septuaginary, Intermittents are generally protracted to an unmoderate period, they have been known to continue 20 or 30 years yet they are not incurable. —

Intermittents are Quotidianus which have their paroxysm every day. Tertians having these paroxysms every other day & lastly quartians which have their paroxysms every third day or in the space of 72 hours, The quartian in the evening the Quotidian in the morning & the tertian at noon —

The paroxysms of intermittents are said to anticipate & procrastinate, as when they precede & succeed the usual time, the former shews the decrease & the latter the decrease of the disease, From the accession to the going



The Intermittent is divided into Quotidian  
Tertian & Quartan

an Intermittent is known by the following signs

- 1<sup>st</sup> the hot stage succeeding the chill
- 2<sup>nd</sup> by the duration of the cold stage
- 3<sup>rd</sup> by the discharge of Bile during the Proximum
- 4<sup>th</sup> by the time of its attack
- 5<sup>th</sup> by occurring in climates that are neither very hot or cold —
- 6<sup>th</sup> the urine secreted during the fit of fever is clear, while that of the interval is turbid and of a brick colour, in hectic fever vice versa

" is clear.



to the going of a fit is called the paroxysm, from the end of the paroxysm to the beginning of the next, is called the interval. Intermittents produce dropsy & other treacherable diseases both chronic & they are very much influenced by the atmosphere. they have been sometimes brought on by salivation, which sometimes intermits, The Gout sometimes appears in an intermittent form, the Intermittents appear in three forms 1<sup>st</sup> malignant 2<sup>d</sup> In highly Inflammatory 3<sup>d</sup> In the mild form all of which require different treatment, a fever is known to be an Intermittent.

1<sup>st</sup> from the hot stage succeeding the chill & occurring in the seasons that Intermittents are most common

2<sup>d</sup> by the duration of the cold stage 3<sup>d</sup> by discharge of bile during the paroxysm 4<sup>th</sup> by the time of its attack 5<sup>th</sup> by occurring in climates that are not very hot or cold it is very little known in the W. Indies, or in climates uniformly hot or cold, 6<sup>th</sup> the urine secreted during the fit of the fever while that of the interval is turbid & of a brick colour, In intermittents of the system be low, give cordials, but if it assumes an Inflammatory type & is necessary with purging vomits &c. The state of the pulse, intensity of pain, vomiting should determine the quan-





ality of blood to be drawn &c. Dr. Holmes says that in the Inter-  
mittents of Jamaica he was obliged to bleed in the  
yellow fever he never found it necessary. I suppose that  
in the latter the system was reduced below the point of  
Inflammatory action, we had a case of an Intermitte[n]  
in this Hospital. (Robert Rose) which was of the tertian  
type of three months standing & was by the first <sup>bleeding</sup> ~~standing~~ made  
a continued fever, but by the second the patient was cured in 8  
days from the time of his admission. Venereal Intermitte[n], these  
fevers are sometimes protracted a great length of time, Mr. Bruce  
had a quartan 15 years, I have heard of its continuing 33 years  
when it is thus protracted, this length of time the disease was  
not properly <sup>cured</sup> ~~protracted~~, for it is not by any means incurable  
Venereal Intermitte[n]s were formerly thought healthy but  
if necessary in them too. King James said that intermitte[n]  
in the spring was phisick for a king. but in his old age he  
died of one, being reminded of his saying upon his death he said  
not for an old one but for the young. when they are mild  
& the pulse Syphilis, the fit is often prevented by Laudanum  
& diluting drinks, if the pulse be tense if and neutral  
salts & bitter tea before the paroxysm, bark before the sec-  
ond & Laudanum, before the third, if the inflammatory sym-



*Dr. Suppours it acts by it poisonous qualities.*

to raise the low & the pulse by Syphilis, as mild as the intermittents generally are in the spring, it commonly assumes an inflammatory appearance in the fall at which time it is always proper, I have here found it necessary to bleed & purge 3 or 4 times before the system was prepared for the bark. In intermittents of the mild kind just before the paroxysm, wine, Laudanum about 30 grs, Rinegar & pepper together with about a teaspoonful of the latter to half a pint of the former dancing hot & cold bath, spirits sulphur in wine, Sturmonium & nicotiana applied to the wrists, a ride on horse back, sweating before the fire & electricity will sometimes be effectual by acting on the predisposing debility. The remedies to prevent the recurrence of the fit are four, Palliative as leeches of all kinds, astringents as alum & salts &c. Bitters & astringents combined juice of spiders in bread or the web made into pills."

Radical from 5 to 10 grs in substance or in solution, the tincture applied around the thigh so as to accumulate the blood in the superior part of the body, it prevents the chill & lessens the fever. But the peruvian bark is superior to any of these & stands unrivalled in intermittents & whenever it fails it is in consequence of inattention to the state of the system, or because the bark is of a bad quality, or not aided by auxiliaries, Emetics are sometimes given as preparatory to the bark, but purges are pre-



Allen's 16 of grain

feasible in discharging the bile & move effectually. It is not safe  
to give it in Tincture unless greatly diluted & to those accus-  
ed to spirits. Children may have a waistcoat girdled with  
the bark or it may be given in Injections, sometimes the paroxysm  
succeeding the first dose of bark is worse in consequence of  
it this is a good sign. It may be given with snakeroot  
orange peel &c in order to make it more palatable, The fol-  
lowing causes may fail to make it cure, 1<sup>st</sup> Giving it in the in-  
flammatory stage of the system 2<sup>d</sup> In visceral obstructions  
of the liver spleen &c 3 In an highly excitable state of the sys-  
tem, 4<sup>th</sup> In an exhausted state of the system 4<sup>th</sup> In an exhausted  
state of excitability 5<sup>th</sup> It long use loosing its effects thereby  
6<sup>th</sup> inducing continence or diarrhoea 7<sup>th</sup> of its being of a bad  
quality — The remedies for the Inflammatory state of this  
fever are of purging low diet &c & then the bark never fails  
For visceral obstructions the same with the addition of blisters  
these two states have always a vizy blood — In all intermittents  
that are protracted the disease is kept up by congestion or  
obstructions for these & and mercury are necessary, deco-  
tion or infusion is often necessary & effectual when the pow-  
ders fail, this is owing to the accumulation of the excitabili-  
ty, Bitters cure when bark fails & for the same cause



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Recollect that I mentioned formerly that the willow bark cured when the peruvian failed. When excitability is nearly gone large doses of the bark as 4 to 5 grs a day with ginger, cloves flores martialis &c. it is very powerfully when given with Iron the lancet should not be forgotten in chronic cases, after large use of the bark lay it aside and give & give other tonics & bitters a day or two, if it induces costiveness join with it a little rhei, if diarrhoea a little, Laudanum.

If after all this it fails suspect it to be bad & get better After the cure a few doses of bark should be given about the full & change of the moon, Blisters when applied to the wrists are often of the most evident advantage in obstinate intermittents, Lying in bed & fasting on the day of the expected paroxysm will often prevent it, if all these fail recovery must be had to a new climate, I once knew a man to be cured by going to sea, after bark, arsenic, &c. had failed But we must recollect that medicines sometimes do not produce their good effect untill after they are discontinued. I cannot take leave of this subject without more previously of the discovery of that invaluable medicine the bark, 1<sup>st</sup> It was discovered by an Indian 2<sup>d</sup> Introduced into use by a priest.



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3<sup>d</sup> Reviled by regular bred physicians, & reviv'd by a  
quack & lastly still unpopular in France & Italy

Intermittents sometimes appear in disguised forms, 1<sup>st</sup>  
in periodical head aches, tooth or ear aches, the remedies  
are of purging blisters & then the bark, the tooth if it be de-  
cayed should immediately be extracted 2<sup>d</sup> in periodical  
convulsions, in children either as Scrofulas or tentans

3<sup>d</sup> In periodical vomits of bile, Bark should be given here, 4 In peri-  
odical dysentery here the bark should be used freely 5<sup>th</sup> In periodical  
Roux & dysentery & apoplexy, by of blisters & then the bark 7<sup>th</sup> erup-  
tions upon the skin, 8<sup>th</sup> In periodical gleet, 9<sup>th</sup> In microscopia or

hem blindness, or an inability to see after night &c. all these are  
known by occurring in the time of Intermittents 10 In dropsy

11 In periodical fever of the part of the body only, as in the arm

&c. The consequences of these y<sup>e</sup> cured intermittents are 1<sup>st</sup> Pulmo-  
nary congestions cough & fever, the remedies are of purging  
Mercury low diet &c. 2<sup>d</sup> obstructions of the Liver, spleen, omu-  
tum &c. These are the effects of such a weak stimuli, as are not

sufficient to induce disease, or more frequently the consequence  
of want of sufficient depletion, Bark & steel are here proper

3<sup>d</sup> Swellings of the limbs, jaundice dropsy & of Mercury  
frictions 4<sup>th</sup> Mectic fever, here salivation promises most





the next form of fever is the Hectic

Hectic, This is often confounded with the Intermittent the Hectic often occurs in *Phthisis pulmonalis*, it causes 1<sup>st</sup> Ulcers as in the joints & 2<sup>d</sup> *Schirri* or glandular Scrofulous tumours in the glandular parts of the body as in the uterus &c 3<sup>d</sup> Obstructions in the viscera as in the Liver &c gall stones calculi &c 4<sup>th</sup> sharp needles pins &c recollect of a Lady being cured of Hectic by a discharge of a pin from the vagina 5<sup>th</sup> Leucorrhoea & menorrhagia 6<sup>th</sup> Poisons which have been called slow 7<sup>th</sup> ordinary stimuli rendered powerful in consequence of an increased excitability 8<sup>th</sup> atmosphere rendered impure in consequence of mercurial exhalations 9<sup>th</sup> Hamilton mentions its being induced by Nostalgia & pregnancy.

Hectic fevers differs from intermittents in the following ways 1<sup>st</sup> they are seldom regular longer than 3 or 4 paroxysms 2<sup>d</sup> sweats succeeding chills 3<sup>d</sup> the sweat gives little or no relief for the fever continues after them & chills frequently appear during the sweat for 10 or 12 days at a time, 4<sup>th</sup> Urine pale during the intermissions & turbid in the intervals 5<sup>th</sup> great pains resembling rheumatism, swelling without pain & sometimes the swelling suddenly disappears.

The Hectic sometimes comes on suddenly, but generally





generally steals on gradually it being sometimes a month before the patient is aware of its approach, there is often a circumscribed spot on the cheek, or brow, having no intermediate shade between it & the colour of the face which establishes its character. People about 45 are more subject than at any other time of their life, the pulse varies very much in this disease, it seldom fails to give warning of its insidious design, The patient in the hectic seldom complains of pain in the head which is an almost universal symptom in Intermitents, They sit & without any inconvenience, the arterial system is chiefly affected, women from 40 to 45 are often subject to the hectic from schirri & obstructions, wounds, poisons, Leucorrhoea &c. may all give rise to it, the pulse is Synochus or Synochoid, Typhus or typhoid the cause of fever from these may be an unsuccessful attempt of nature to carry off the exciting cause. powerful stimuli acting on accumulated excitability. the remedies are the removal of tumors exciting causes &c. as nausea for these may induce it, & when the pulse is synochus or synochoid & this must be particularly attended too, or when that cannot be used, Opium and other feeble evacuates, Bark steel & the cold bark are the remedies generally recommended a unita stict has been used to a great advantage.



The first of these is the fact that the  
 government has been unable to  
 maintain a stable currency. This  
 has been due to a variety of  
 causes, including the fact that  
 the government has been unable to  
 raise sufficient revenue to meet  
 its obligations. This has led to  
 a situation in which the government  
 has been forced to print money  
 to meet its needs, which has led  
 to inflation and a loss of confidence  
 in the currency.

than there, but from the great nourishment it contains the propriety of giving it is very doubtful, I have used every tonic to no purpose, infusion of malt has been used to a greater advantage than there with Fouchon's Sparta of S. G. was perfectly cured by an old woman by this infusion, the manner in which it is prepared is to take 3 or 4 spoonfuls of the sifted powder of malt to which add a quart of boiling water, 2 or 3 spoonfuls of sugar & a little wine, 2 or 3 quarts of it may be given daily drinking sediments & all, Arsenic has been recommended here? also digitalis bark lettuce &c. but they generally aggravate the symptoms of the disease unless the pulse be typhus, From all this it appears like the shirt of Hercules it can only be shaken off by labour & exercise but sometimes it is out of the patient power to take this exercise from want of means, as improper weather &c. are we then to desert them? may not some new action be created in the system? as by salivation To prevent the chills from 20 to thirty drops of Laudanum are used with success in some cases it was the only medicine that checked the disease. The most valuable of all the remedies are riding on horse back, salivation hard labour & Laudanum. I must mention a case that amputating a dis-



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ing a diseased limb & which was the supposed cause, was it by the removal of the cause or by creating a new action that this cure was effected? He leaves the latter.

*Febricula* comes next, It is common to the south in autumn & it is known by the name of the inward fever. the patient is neither sick nor well, his hands are hot, It is best known by a quick pulse, dry tongue, little head ache & high coloured urine, It only requires the stimulus of a glass of wine to be thrown into an intermittent, The remedies are vomits, gentle purges & but above all blisters, bark & if are sometimes necessary, this is so common that few escape it; *Critical days*. - In spite of all these changes of climates critical days have continued for ages. - they were even noticed by *hypocrates*, all fevers have critical days which are more plain & distinct in uniform climates. *Dr Senec* calls the tertian the primary form of fever & its critical days are on the 3, 5, 7, 9, 11<sup>th</sup> after which the quartian type is assumed & then the critical days are on the 14-17-20 & after the 20<sup>th</sup> on the 27-35 & 42 the *ty fever* generally terminates on the critical days of 3-5-7-9 &c. In consequence of extreme debility the crisis is sometimes observed upon the non critical





Dr Jackson informs us that of 60 cases of intermittent fever  
which terminated favourably, 10 terminated on the 3<sup>rd</sup> day  
10 on the 5<sup>th</sup> 20<sup>th</sup> on the 7<sup>th</sup> 10 on the 9<sup>th</sup> 5 on the 11<sup>th</sup> & 5 on the  
17<sup>th</sup> day, of 9 that died, one on the 6<sup>th</sup> one on the 7<sup>th</sup> six on  
the 8<sup>th</sup> & one on the 10<sup>th</sup> all continued fevers are protracted  
tertians as it is evident from the exacerbations on the 3<sup>rd</sup> day  
the continued fevers are more violent on critical days  
when the remedies are of &c which should be attended to  
the present mode of practice may derive some advan-  
tage from observing the critical days in continued fevers  
where the remissions are not observed, the fever will be of  
the greatest force on the odd day & shews a centripetal ten-  
dency upon those days, then of & purging should be given.  
If the paroxysm of fever be worse upon an even or a critical  
day the Physicians attention is so much the more necessary as  
the patient is then getting worse & the fever becoming more  
dangerous. It generally terminates in death on the 15<sup>th</sup> or 5<sup>th</sup> day  
when any doubt is entertained about giving bark & other  
stimulants give them on the non critical days, a very great  
advantage arises from attending to the critical days. —  
we may keep up the hopes of the Patient & thereby obtain  
his confidence, the critical days change in different sea-  
sons



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In this place the yellow fever generally terminates in August on the 3<sup>d</sup> day in September on the 3 & 5<sup>th</sup> In October on the 5 & 7 & the latter in October the more protracted & this I suppose is more applicable to middle climates, Dr. Balfour & Lind with some others say that fevers show exacerbations, on the full & change of the moon & 3 days before & 3 after the change. I believe in the effects of the moon in these cases & Dr. Morely says that fevers grow worse at such times in Jamaica. From this we may learn to use 1<sup>st</sup> more powerful medicines at these two lunar periods 2<sup>d</sup> avoid more particularly all exciting causes at these periods, 3<sup>th</sup> to guard against relapses on those days, 4<sup>th</sup> Not to give tonics about these periods.

### Of the prognosis of Fever.

Or the sign which indicate the issue of fever in Life & death 1<sup>st</sup> the signs vary in different countries, in different seasons in the same country, in different people & ages & in different grades of the same fever, 2<sup>d</sup> There is great difference between the same grade of fever in adults & children which arises from two different causes.

1<sup>st</sup> Children are more tenacious of Life than adults hence they frequently recover after the Black vomit & other fatal symptoms that adults have.





2<sup>d</sup> There is a great difference in different periods of Life, 3<sup>d</sup> the same signs differ in meagre & robust habits, 4<sup>th</sup> In particular states of the health in ancestors for a person from healthy ancestors will survive a more violent attack of fever than one from sickly ancestors.

### Signs of Life & death in general states of Fever.

1<sup>st</sup> the violence, danger, & duration of fever may be predicted from a knowledge of the violence &c. of the remote causes, the predisposing the exciting do & the suddenness of the attack without premonitory symptoms, 2<sup>d</sup> as the union or intimacy of the different parts of the symptom becomes broken the fever becomes more dangerous as in the hectic & less so the more general the fever is. In hectic the arterial system alone is affected & all the other systems are unaffected. We see it to in Spasms or convulsions where but one system is affected 3<sup>d</sup> Paroxysms being worse on even than odd days, those fevers which creep on slowly are worse than those which come on suddenly, 4<sup>th</sup> the absence of appetite & chills unfavourable, but the coming on of the chill before & after is favourable, The sudden recovery of strength is unfavourable.

### Signs of Life and death are

1<sup>st</sup> direct debility in the beginning of fever is not



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alarming but at a close, is a sign of death appearing in tremors  
&c. Lying constantly upon the back, sliding down in bed, a  
disposition to faint, raising the eyes in bed, tremors of the  
tongue, are all, unfavorable symptoms, 2<sup>d</sup> absence of pain  
dangerous in malignant fevers, but less so when the pulse  
is tense & the patient says he is too well, return of pain after  
depletion favourable, Long protracted pains are dangerous & more  
so in vital parts than elsewhere, they maintain excitability.  
Pain returning after depletion & occupying external parts in  
every state of fever favourable, as they shew a Centrifugal  
tendency, 3<sup>d</sup> partial heat or coldness if long continued  
as cold wrists when the hands & fingers are warm is always  
fatal, Cold feet & breath long protracted chilling, a sense  
of heat on the skin or in the stomach are all unfavora-  
ble 4<sup>th</sup> absence of, or an immoderate thirst is unfavora-  
ble, sudden subsiding of these with a dry or black tongue  
& thirst for uncommon drinks are all unfavourable.  
5<sup>th</sup> the pulse being preternaturally slow (except in old  
people) unfavourable more so in children. An Intermit-  
ting pulse is dangerous, we sometimes meet with this  
where there is no danger & where it continues from hab-  
-it in Anmalescents. (I must however own that the



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that the intermitting pulse is without danger in some instances; I once saw it attend the whole time of convalescence. The danger is in proportion to the number of intermissions in a given time; when the pulsation is 120 the case is alarming & when as high as 180 few recover. I once saw the pulse 208 in hectic fever which proved fatal, 6<sup>th</sup> a white tongue is the sign of Inflammation, a yellow one of bile, a red smooth tongue, a black & natural tongue are very dangerous in malignant fevers & generally fatal. A tongue becoming moist after being dry or becoming gradually moist, first from the edges & gradually spreading over the whole is favourable; a hot tongue dangerous, but a cold one fatal. Sores on the tongue & lips are generally safe and favourable, but always fatal when on the fauces tonsils & throat. Take care that you are not deceived by matters foreign to the disease as chewing tobacco, when that appetite remains, port wine, liquorice, jellies &c. or a dry tongue made so by sleeping with the mouth open or moist by drinks or by art, 7<sup>th</sup> Eyes  $\frac{1}{2}$  open fatal in every case, in adults except in dysentery, one eye larger than the other or a contracted or dilated pupil, muddiness





glaziness & continued motion & wrinkling of the eyes, squinting blindness, false or double vision catching at imaginary objects matter formed at the inner corner of the eye, involuntary tears, a flow going & coming off the Cornea are all unfavourable, The pupil of the eye becoming white clearer & lighter is favourable.

8<sup>th</sup> Deafness favourable in mild but the reverse in malignant diseases. Titmus Aurium, pain from slight motion a revival or extension of the sense of hearing, after deafness all unfavourable, 9<sup>th</sup> Supersensation, insensibility to cold Blisters &c. unfavourable, sudden restoration of sensibility to cold pain &c. fatal, Great pain attending the touch of blisters in mild fevers very favourable. It is favourable if the patient asks you how he is, before you put that question to him & move so if he asks you about your own state of health, Gaping sneezing picking the nose are favourable, they show the return of sensibility, return of old pains in former diseases & looking round quickly are favourable. An exception to this occurs in Asthma, 10 Hollow eyes contracted skin on the fore head, a frown, a resemblance of ancestors, the Hippocratic countenance & one naturally placid.



"Dr. Rush accounts for the rattles in this way  
the patient has not power to expectorate the mucus in  
his throat —

are all unfavorable, The feverish countenance is favorable  
as the florid, but not the livid colour of the nails, expansion  
of the cheeks unfavorable, Asthma, will sometimes shew  
the most of these symptoms of death & not be dangerous  
14<sup>th</sup> Respiration sometimes slow & sometimes quick, ex-  
pansion of the ala nasi, a hollowing moaning occurring  
when awake, but worse in sleep, cold breath & the rat-  
tles in adults are fatal, 12<sup>th</sup> a quick sharp unnatural  
voice paraphonia palatina aphonia more so, but I  
have seen recoveries from them 13<sup>th</sup> Lying on the sides  
after lying on the back always favourable 14<sup>th</sup> old sores  
returning, eruptions about the mouth spontaneous sal-  
ivation & secretions are favourable, The priapism is gen-  
erally favourable but in 93 it preceded death in one  
case, Dr. Haller relates a case in which it continued  
two hours after death, Mahamed died with this sym-  
ptom, viscid matter adhering to the teeth gnashing  
them, convulsions, tremors &c. are fatal, also Hussips  
in malignant fevers, but not in mild, 15 a return  
of appetite for food, tobacco, coffee &c. are favourable  
16 obstinate continence, from defective secretion, the  
discharge of feces without noise are all unfavorable



The first thing I noticed when I stepped  
out of the car was the cold air of the  
morning. It was a sharp contrast to the  
warmth of the car. I walked towards  
the entrance of the building, my  
feet crunching on the frost-covered  
pavement. The snow was a thick blanket  
over everything, muffling the sounds of  
the city. I could see my breath in the  
cold air, a small cloud that disappeared  
in a moment. The building ahead of me  
was a grand structure with many windows,  
some of which were already lit up. I  
felt a sense of anticipation as I approached  
the entrance. The door was open, and  
I stepped inside, feeling the warmth of the  
interior. The lobby was large and  
elegant, with a high ceiling and ornate  
decorations. I looked around, taking in  
the details of the architecture. A man in  
a suit and tie was standing near the  
entrance, looking at his watch. I  
approached him, and he nodded towards  
the elevators. I thanked him and stepped  
into the elevator. The doors closed, and  
I rode up to the top floor. The office  
was large and bright, with a view of the  
city. I sat at the desk, feeling a sense  
of accomplishment. The day was just  
beginning, and I was ready to take on  
whatever came my way.

But when discharged with noise it shews, command of the  
sphincter and this the D<sup>r</sup> learned from an old woman.  
green & black stools are favourable in bilious fevers stools are  
healthy when they are bene odorata & bene colorata. Worms  
when discharged alive by the anus favourable but not by  
the mouth; when discharged in the beginning mixed  
with slime & alive favourable, but when discharged dead  
H.C. & in the close of fever unfavourable, 17<sup>th</sup> vomiting un-  
favourable, bloody urine suppression, pale high coloured  
or coffee coloured do. are all alarming. Milky urine de-  
notes a disease of long continuance, when it is favourable  
it is cloudy, because it shews the sign of a crisis. Gravel  
by matter adhering to the sides of the pot is favourable  
this gravelly matter in calculus falls to the bottom & in  
fevers sticks to the sides of the pot. Sweats in mild fe-  
vers are universally favourable, but if partial are not  
so, an acid putrid caudaverous smell or taste of the  
sweat generally unfavourable. & generally fatal.

I know a recovery after this odor, rather than odor  
in fevers. Abscesses & glandular swelling, favourable. Cold  
sweats unfavourable.

I come now to the signs of Life & death as they re-



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gard the mind. —

Apathy unfavourable. a silent delirium more alarming than a talkative one, if this last symptom occurs after being suspended it is favourable, but if they continue throughout the disease this last inference cannot be made.

Good temper is favourable & enquiring after news, the hour of the day or night a disposition to be removed or to change rooms are all favourable. Want of solicitude & friendships for the family & relations unfavourable, but their return after being suspended is favourable, Sudden cures are seldom wanting especially in chronic cases, all these symptoms may deceive us with a few exceptions, I have seen recoveries from the most unfavourable symptoms & vice versa, A physician should never forsake his patient what ever may be the signs, nor should he give a prognostic unless pressed, but let him say that word those have been worse have recovered & those of better symptoms have died. If pressed positively to say let the prognostic be unfavourable, that if the patient should recover he may be thought wiser than himself & his skill more esteemed than his judgment admired. —

Having now Gentlemen spoken of the prima -my



"Morbus

forms of fever, I must next observe that there are six forms of fever more strongly dependant upon the arterial system than any other viz the Yellow Fever, the Inflammatory, bilious, mild bilious, Intermittent, Remittent, & Febricula, also four more particularly connected with the alimentary canal namely the, Dysentery, Cholera, Cholic & Diarrhoea these you will do well to remember, we will now proceed to deliver a few remarks, upon the cause symptoms & cure of those states of general fever, which are known by the name of the yellow & bilious fever, Plague, Jail Fever, the fever from Opium & the bite of rabid animals.

### 1<sup>st</sup> Bilious states of Fever.

I shall only say a few words about the forms of fever, because so many writers have spoken of them, the best of which are Aeghoun, Hillary, Jackson, Clarke, Dr. J. Hunter & Senac 1<sup>st</sup> of the mild Bilious, This assumes as many forms as the yellow fever & the cure is the same, the pulse is moderately Synochus & the blood seldom, sissy, The remedies are 1<sup>st</sup> When the pulse is active, 2<sup>d</sup> Purges as Salts, Cremor tartar, Manna Senne & sometimes Calomel, 3<sup>d</sup> gentle vomits, 4<sup>th</sup> distilling as cold water, 5<sup>th</sup> Blisters after the 3<sup>rd</sup> or 4<sup>th</sup> day to the wrists & after it has assumed an Intermittent type.



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The bark is a specific, when the bark is rejected, Chamomile tea  
Columbo, Turpina Gentian &c may be used with great advantage.  
Salivation is seldom necessary in this form of fever, but some-  
times necessary to prevent relapses, the sooner this fever comes  
on in the face the more general it will be. 2<sup>d</sup> dry air produces  
inflammatory & remitting fevers most so. Intermittent & bili-  
ous fevers, These forms frequently change to a grade & may be  
between a mild & yellow fever, I have called it the Inflammatory  
intermittent & have described under the name of breath bone  
fevers in my Inquiries.

These fevers still assumed a more malignant form in 1793  
which was the yellow fever (for an account of which I refer to  
my 3<sup>rd</sup> & 4<sup>th</sup> vol of my Inquiries) also to Hillary. Morely, Coxs  
museum &c you are not to expect to find the account of the  
symptoms & similar in all for it appears sometimes in the forms  
of Synocha, Dysentery, Palsy, Apoplexy, different kind of Con-  
vulsions &c. In the form of Intermittents when it kills  
as certainly as when it does not intermit, it frequently termi-  
nates upon the 5<sup>th</sup> & 7<sup>th</sup> day. It frequently appears in the form  
of Chronic Inflammatory chronic typhoid &c & in Febricula  
in a dumb form in which the muscles preserve their excite-  
ment, walking even just before death in the form of uni-



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pale yellow nose, which is not dangerous, fainting or a disposition to faint upon being moved, sweats cold & profuse on the skin &c. It generally occurs in the middle of August. The pulse is slow, not active at sometimes & the reverse at others, a natural tongue with great heat upon the skin are dangerous symptoms, a person died of pain in the toe & upon being opened showed evident signs of Inflammation in the stomach. The exciting causes of this are running swimming, vomiting by eating mushrooms, sleeping in a damp place fractured Leg, relinquishment of former occupations, these are what I have collected in this City especially in 1793 at which the system was like a Florence flask. In consequence of the brain having white, occurs in it ventricles & there being great marks of Inflammation in the stomach, when no vomiting takes place it is supposed that the black vomit does not take place till after the death of the stomach.

The remedies for vomiting are of, Chamomile tea milk or milk & lime water of each equal parts, this has allayed a vomiting where every thing else had failed. sweet oil, Minn milk & molasses, alkaline salts, oatmeal roasted & tea made of it, Sp turpentine 10 drops in sweet



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or Melasses, sacch alb, tinct Opie 30 gutt aqua mouth IV made  
into a Julep has been highly recommended, total abstinence  
by it the stomach puts itself as it were in a good humoor  
blisters to the pit of the stomach, wrist or ankle, milk & lime  
water injected into the anus, large doses of Opium, by the  
mouth & rectum, Cayenne pepper, For Diarrhoea, testaceous  
powders Al kermi & a few drops Laudanum &c. For a pain in  
the head ice in bladders or cold water to it, injection of cold  
water for a pain in the bowels, in the stomach gentle fric-  
tions of sweet oil & Laudanum, for coma, cupping, blisters  
or a plaster of mustard all over the head.

2<sup>d</sup>. the Plague. This is an offspring of Miasma, the sym-  
toms differ from different causes, as habit custom, Climate  
&c. There is no form of yellow fever in which the plague ap-  
pears does not, it appears in all the 13<sup>th</sup> primary forms  
of fever - It is not only altered by climate &c. but by dis-  
tinct manners religion &c. It prevails in no part where there  
is no animal & vegetable putrefactions. It is not specifically  
contagious it appears in dysentery & mania, It never was  
nor never will be exported from one country to another.

It ceases as the intercourse between nations increase  
The causes which prevent it here are 1<sup>st</sup> The high culti



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divated state of the Country 2<sup>d</sup> the great consumption of veget-  
ables 3<sup>d</sup> better accommodations 4<sup>th</sup> cleanliness, it is kept  
up in Egypt, by the opposite causes. It is checked by cold  
& hot weather rain &c. like the yellow Fever, It appears af-  
ter the recess of the Nile & goes off about the middle of June  
the remedies are if this is sometimes useful tho' the system  
is generally prostrated as not to admit of depletion, swea-  
ting purging & vomiting &c. Opium salivation is too slow to  
do good, the plague generally terminates in the sore throat  
& mouth, Diarrhoea, Influenza, Gonorrhoea, &c.

(see Webster's medical reports)

3<sup>d</sup> Jail fever, this is sometimes attended 1<sup>st</sup> with so  
great a degree of morbid action as to require 2 or 3 & of or-  
even more when the complaint is attended with obstruc-  
tions 2<sup>d</sup> it sometimes appears in chronic or acute dysen-  
tery 3<sup>d</sup> It is attended occasionally with inguinal swell-  
ings which have been mistaken for Euloes, I should have  
be deceived when I was surgeon in our late army had it  
not been for Monroe which I kept continually by me -  
4<sup>th</sup> It spreads by excreted matter & cold weather & spring  
-chilling a warm climate drives it off entirely Dr. Hunter  
informed me that the soldiers never had it when they



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in the open air. 5<sup>th</sup> It is sometimes communicated by one  
in whom it is dormant, this may be believed by the fol-  
lowing circumstance, I knew a case of a man who was  
never affected by handling a poisonous vine, but his wife  
felt the effects of it though he did not touch it, 6<sup>th</sup> this  
fever may be shunned by avoiding all the predisposing  
& exciting causes just mentioned, It may be cured by  
accommodating the remedies to the different states of the  
system, when the pulse is *Synocha*, *Synochus*, *synochela*  
or *synochoid*.

We will next speak of

4<sup>th</sup> Fever induced by Opium This is truly a malignant  
state of fever, the remedies are v when the pulse is active  
or much depressed, Emetics, when all others fail a fea-  
ther may have some effect, indeed tickling the throat  
with a feather is the most successful in the first instance  
the larynx may be retentive of its sensibility when that  
of the stomach is lost, 3<sup>d</sup> Cold applications to the stomach  
when there is much febrile heat, 4<sup>th</sup> Cordials after deple-  
tion the best of which are Aromatic Sp. Ether, 5 stimulating  
injections & cataplasms to the feet & hands, 6<sup>th</sup> Maggellaton  
5<sup>th</sup> Fevers produced by the bite of a



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Rabid animal (for a full account of these I refer  
you to my Inquiries)

6<sup>th</sup> Fevers produced by

**POISONS**, There are three kinds of poison the animal vegetable & mineral, the remedies for these are 1<sup>st</sup> such as act by the mouth or bowels, 2<sup>d</sup> such as destroy the effect of the poison by forming a mixture, & 3<sup>d</sup> such as destroy the effects of the poison by forming a new a less dangerous action, the first are vomits which may be excited with a finger feather &c. White vitriol is the quickest in its operations Saffron may be used when other medicines fail, in the dose of about 6 gr. To discharge from the bowels, purges of sweet oil & milk & water diluting drinks &c. to give those of the 2<sup>d</sup> head such should be given as would make a neutral mixture, The remedies under the 3<sup>d</sup> head which are to cure by creating a new but less dangerous action. The cures that have been made show us that we never should desert our Patients in this disease, when these remedies fail excite an action on the skin, recollect the dog cured of Mox Vomica by flagellation. —  
& the two cures given by Darwin by flagellation. —



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When the fever is slow treat it as fevers from other causes  
Sweating has been attempted as proper, if the poison shews a  
tendency to pass off this way sweating should be used for  
this Serpentina Seneha &c. but if they cannot be procured  
readily the Vol. Alkali should be used. Morely says that  
an action excited in the stomach acts in the same way as  
a cure when the poison has been taken by the skin, as an  
irritation excited on the skin, does when the poison has been  
inwardly taken, Sometimes the poison acts primarily on the  
skin inducing erysipelatous inflammation & morbid Erit.  
in the Blood vessels. —

We shall now consider certain states as they occur in  
Malignant fevers, the worst form of Malignant fever is ex-  
cited by the bite of a rattle snake, to this state of fever  
the remedies must be accommodated. —

There are —

1<sup>st</sup> The sweating state of Fever. This occurs in ma-  
ny diseases as Pleurisy consumption &c. it may be either  
with strong or weak morbid action, that in strong occurs  
in the waking state, in the yellow Fever, Pleurisy, Inter-  
mittent fever, &c. & it may be called the tonic sweat  
that with weak occurs in the sleeping state. —



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In the Plague & Typhoid fever & it may be called the atonic sweat, they are fetid yellow, green, acrid &c.

In cases of great morbid excitement where the sweating state comes on it would be proper, sitting up in bed &c. In weak morbid action the remedies are, Elixir vitriol Bark &c. & sometimes in the typhoid state of fever a small & sweet pungent sweats.

2<sup>d</sup> The Fainting state, This occurs in all those fevers of a violent & malignant form, the remedies are small & of Emetics &c. the patient will perhaps faint after 1, 2 or 3 & not afterwards.

3<sup>d</sup> The burning state, this has been called *causa*, but it is rather the consequence of disease, it is the calor mordens, the blood when trickling down the arm is burning to the patient. It is a symptom of Malignant fever, I have known the heat to be very great when the pulse was scarcely perceptible, hence we may determine that heat is not proportioned to the violence of the circulation of the blood, the remedies are of Purging & cold applications.

4<sup>th</sup> The cold & chilly state this is often protracted for several days, is sometimes partial & some



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times general, the remedies are of 4<sup>th</sup>. this has often removed the cold from the feet & after bleeding friction is an useful remedy.

5<sup>th</sup> The Petechial. this is the Malignant form suffocated upon the skin & the system is generally prostrated when the petechia appears. These petechia are to the malignant fevers, what the prickly heat is to the mild bilious, the remedies are those used in the prostration of the system. the next form of fever is the

Intestinal in which are included Cholera, Diarrhoea, Dysentery & Cholera Morbus & first of  
Diarrhoea, here I shall confine myself to the acute & not the chronic, this occurs more in the season in which cold nights succeeds hot days, this is a check to the perspiration determining it to the bowels, also in moist weather. It is occasioned by eating unripe fruit & that in large quantities, by large quantities of fresh meat after being accustomed to salt meat, putrid &c. the remedies are frequent purges, diluting drinks after which Laudanum internally about 40 gutt injected with ℥iv of flaxseed tea into the rectum & Cretaceous mixture it is made in the following manner.





Creta ppt ℥i<sup>iii</sup> pulv gum arabic ℥i<sup>iii</sup> sacch alb ℥ss  
 Laudanum ℥i. Ol cin gutt xii aqua fontan ℥viii  
 a table spoonfull to be given every 2 or 3 hours

**Dysentery**, this is a higher grade of diarrhoea  
 it is to diarrhoea as Gout is to Rheumatism or Consump-  
 tion to catarrh. the discharge of mucus alone from the  
 bowels in dysentery may be called a Gonorrhoea of the  
 bowels, as the dysentery is often preceded by diarrhoea  
 so it often goes off in that form. Bad wheat has indu-  
 ced it, sour wine, & human effluvia have produced it.  
 It sometimes comes on as the diarrhoea with fecal dis-  
 charges, but more frequently by costiveness & no discharge  
 of bile, the patient is attended with great pain & in-  
 clination to stool, the perspiration is generally stopt  
 the discharge is sometimes mucus without blood &  
 vice versa, the pulse is sometimes quick & at others  
 active, the pain in the bowels is sometimes up to the  
 point of the sternum & at others low down in the rectum  
 & sometimes in the whole canal. It is sometimes gen-  
 eral in the intestines & no pain at all, a membrane  
 is sometimes discharged with the coagulating lymph  
 formed into a membrane by inflammation —



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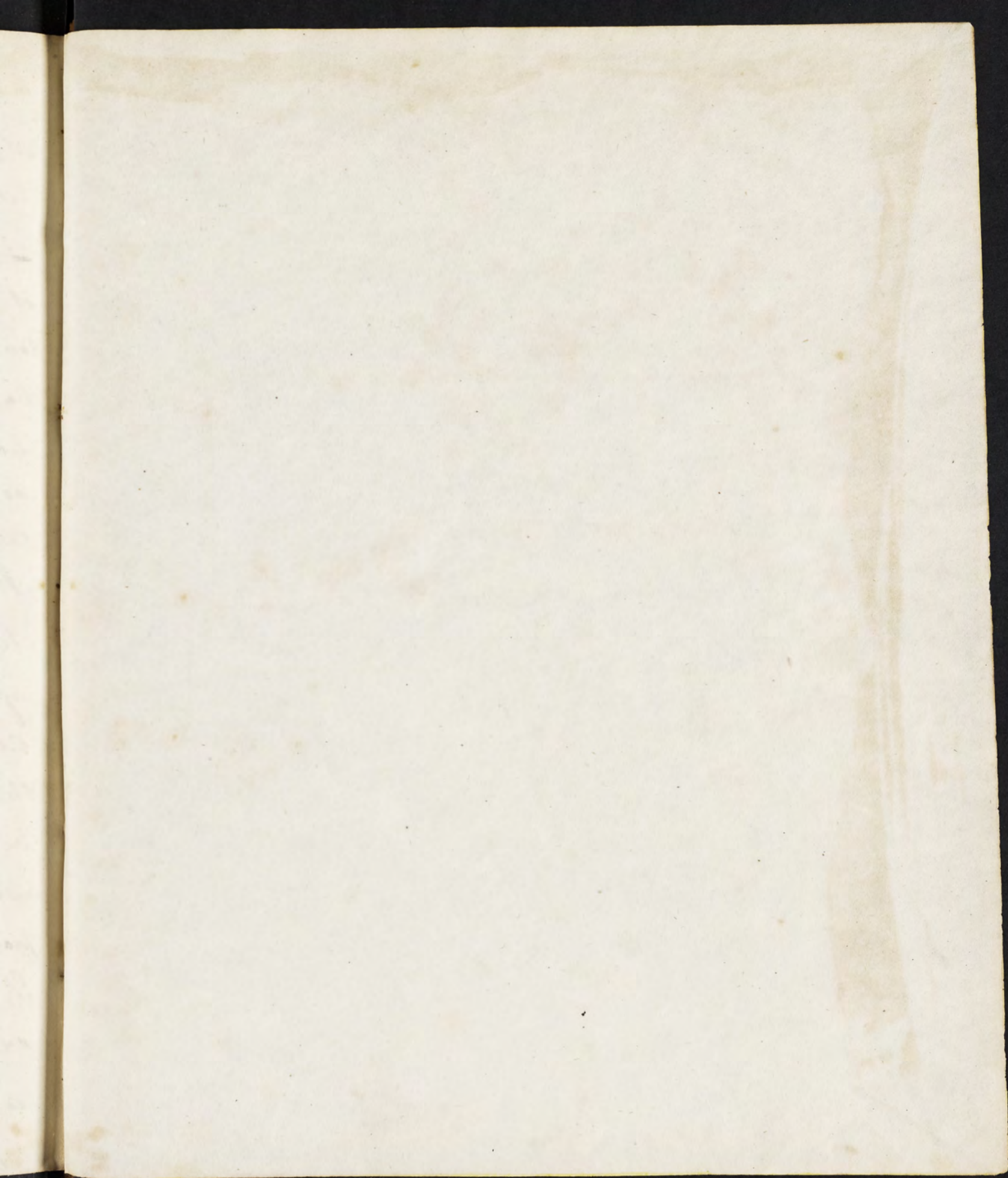
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